

## Technical Data

| 产品说明                                     |  |   |   |  |
|--|--|---|---|--|
| Akulon® Ultraflow<br>K-FHGM24<br>(干燥)    | 10% Glass Reinforced, 20% Mineral Reinforced, Heat Stabilized, High Flow   |   |   |  |
| Ultramid®<br>B3GM35 BKQ642 23220<br>(干燥) | Ultramid B3GM35 BKQ642 23220 is a 40% combined glass-fiber and mineral reinforced, pigmented black injection molding PA6 grade.  |   |   |  |
| Akulon®<br>K224-LGM35<br>(干燥)            | 15% Glass Reinforced, 25% Mineral Reinforced, Improved UV-stability  |   |   |  |
| Ultramid®<br>B3WGM24 HPX BK23210         | Ultramid B3WGM24 HPX BK23210 is a very high productivity, 30% glass/mineral reinforced heat stabilized injection molding PA6 grade for components that require medium rigidity, excellent dimensional stability, low warpage out of the tool and excellent appearance. |   |   |  |
| <b>总览</b>                                | <b>Akulon® Ultraflow<br/>K-FHGM24<br/>(干燥)</b>   | <b>Ultramid®<br/>B3GM35 BKQ642 23220<br/>(干燥)</b>                               | <b>Akulon®<br/>K224-LGM35<br/>(干燥)</b>                    | <b>Ultramid®<br/>B3WGM24 HPX BK23210</b> |
| 生产商/供应商                                  | • DSM Engineering Materials  | • BASF Corporation  | • DSM Engineering Materials                               | • BASF Corporation                       |
| 通用符号                                     | • 尼龙 6   | • 尼龙 6  | • 尼龙 6  | • 尼龙 6                                   |
| 材料状态                                     | • 已商用：当前有效   | • 已商用：当前有效  | • 已商用：当前有效  | • 已商用：当前有效                               |
| 资料 <sup>1</sup>                          | • Processing (English)<br>• Technical Datasheet (English)  | • Technical Datasheet - ASTM (English)<br>• Technical Datasheet - ISO (English) | • Processing (English)<br>• Technical Datasheet (English) | • Technical Datasheet (English)          |
| 搜索 UL 黄卡                                 | • DSM Engineering Materials<br>• Akulon® Ultraflow   | • BASF Corporation<br>• Ultramid®   | • DSM Engineering Materials<br>• Akulon®                  | • BASF Corporation<br>• Ultramid®        |
| 供货地区                                     | • 北美洲<br>• 非洲和中东<br>• 拉丁美洲<br>• 欧洲<br>• 亚太地区   | • 北美洲   | • 北美洲<br>• 非洲和中东<br>• 拉丁美洲<br>• 欧洲<br>• 亚太地区              | • 北美洲                                    |
| 填料/增强材料                                  | • 玻璃\矿物, 30% 填料按重量   | • 玻璃\矿物, 40% 填料按重量  | • 玻璃\矿物, 40% 填料按重量  | • 玻璃\矿物, 30% 填料按重量                       |
| 添加剂                                      | • 热稳定剂   | --  | • 紫外线稳定剂  | • 热稳定剂                                   |



| 总览       | Akulon® Ultraflow K-FHGM24 (干燥)  | Ultramid® B3GM35 BKQ642 23220 (干燥)   | Akulon® K224-LGM35 (干燥)   | Ultramid® B3WGM24 HPX BK23210  |
|----------|--|--|---|--|
| 特性       | <ul style="list-style-type: none"> <li>流动性高</li> <li>热稳定性</li> </ul>   | <ul style="list-style-type: none"> <li>High Dimensional Stability</li> <li>耐油性能</li> <li>中等硬度</li> </ul>   | <ul style="list-style-type: none"> <li>耐候性, 良好</li> <li>耐紫外光性能, 良好</li> </ul>   | <ul style="list-style-type: none"> <li>High Dimensional Stability</li> <li>低翘曲性</li> <li>耐油性能</li> <li>热稳定性</li> <li>外观良好</li> <li>中等硬度</li> </ul> |
| 用途       | --   | <ul style="list-style-type: none"> <li>工业应用</li> </ul>   | --  | <ul style="list-style-type: none"> <li>汽车的发动机罩下的零件</li> <li>汽车领域的应用</li> <li>外壳</li> </ul>   |
| 机构评级     | --   | <ul style="list-style-type: none"> <li>EC 1907/2006 (REACH)</li> </ul>   | --  | <ul style="list-style-type: none"> <li>EC 1907/2006 (REACH)</li> </ul>   |
| RoHS 合规性 | --   | <ul style="list-style-type: none"> <li>RoHS 合规</li> </ul>  | --  | <ul style="list-style-type: none"> <li>RoHS 合规</li> </ul>  |
| 汽车要求     | <ul style="list-style-type: none"> <li>FORD WSS-M4D968-A Color: Black</li> <li>PSA Peugeot-Citroën SPA X62 4143</li> </ul>   | <ul style="list-style-type: none"> <li>CHRYSLER MS-DB-41 CPN2927 Color: Q642 23220 黑色</li> <li>CHRYSLER MS-DB-41 CPN3326 Color: Q642 23220 黑色</li> </ul> | <ul style="list-style-type: none"> <li>CHRYSLER MS-DB-41</li> <li>FORD WSS-M4D822-A2</li> <li>GM GMW16280P-PA6-M25GF15</li> </ul> | <ul style="list-style-type: none"> <li>FORD WSS-M4D968-B1</li> </ul>   |
| 外观       | --   | <ul style="list-style-type: none"> <li>黑色</li> </ul>   | --  | <ul style="list-style-type: none"> <li>黑色</li> </ul>   |
| 形式       | --   | <ul style="list-style-type: none"> <li>粒子</li> </ul>   | --  | <ul style="list-style-type: none"> <li>粒子</li> </ul>   |
| 加工方法     | <ul style="list-style-type: none"> <li>注射成型</li> </ul>   | <ul style="list-style-type: none"> <li>注射成型</li> </ul>   | <ul style="list-style-type: none"> <li>注射成型</li> </ul>  | <ul style="list-style-type: none"> <li>注射成型</li> </ul>   |
| 多点数据     | <ul style="list-style-type: none"> <li>Creep Modulus vs. Time (ISO 11403-1)</li> <li>Isothermal Stress vs. Strain (ISO 11403-1)</li> <li>Shear Modulus vs. Temperature, Dynamic (ISO 11403-1)</li> <li>Specific Volume vs Temperature (ISO 11403-2)</li> <li>Viscosity vs. Shear Rate (ISO 11403-2)</li> </ul> | --   | --  | --   |
| 树脂 ID    | <ul style="list-style-type: none"> <li>PA6-(GF+MD)30</li> </ul>  | --   | <ul style="list-style-type: none"> <li>PA6-(GF+MD)40</li> </ul>   | --   |

| 物理性能    | Akulon® Ultraflow K-FHGM24 (干燥) | (调节后的) | Ultramid® B3GM35 BKQ642 23220 (干燥) | (调节后的) | Akulon® K224-LGM35 (干燥) | (调节后的) | Ultramid® B3WGM24 HPX BK23210 | 单位制   | 测试方法      |
|---------|---------------------------------|--------|------------------------------------|--------|-------------------------|--------|-------------------------------|-------|-----------|
| 密度 / 比重 | --                              | --     | 1.48                               | --     | --                      | --     | --                            | g/cm³ | ASTM D792 |
|         | --                              | 1.37   | --                                 | 1.48   | --                      | 1.49   | --                            | g/cm³ | ISO 1183  |



| 物理性能             | Akulon®<br>Ultraflow<br>K-<br>FHGM24<br>(干燥) | (调节后的) | Ultramid®<br>B3GM35<br>BKQ642<br>23220<br>(干燥) | (调节后的) | Akulon®<br>K224-<br>LGM35<br>(干燥) | (调节后的) | Ultramid®<br>B3WGM2<br>4 HPX<br>BK23210 | 单位制       | 测试方法      |
|------------------|--|--------|--|--------|-----------------------------------|--------|---|-----------|-----------|
| 熔流率 (熔体流动速率)     |  |        |  |        |                                   |        |   |           | ISO 1133  |
| -- <sub>3</sub>  | 25   | --     | --   | --     | --                                | --     | --                                      | g/10 min  |           |
| 275°C/5.0 kg     | --   | --     | --   | --     | 14                                | --     | --                                      | g/10 min  |           |
| 熔融体积流量 (MVR)     |  |        |  |        |                                   |        |   |           | ISO 1133  |
| 250°C/2.16 kg    | 20   | --     | --   | --     | --                                | --     | --                                      | cm³/10min |           |
| 275°C/5.0 kg     | --   | --     | --   | --     | 17                                | --     | --                                      | cm³/10min |           |
| 收缩率              |  |        |  |        |                                   |        |   |           |           |
| 流动 : 3.18 mm     | --   | --     | 0.40   | --     | --                                | --     | --                                      | %         |           |
| 垂直               | 0.93   | --     | --   | --     | 0.88                              | --     | --                                      | %         | ISO 294-4 |
| 流动               | 0.40   | --     | --   | --     | 0.38                              | --     | --                                      | %         | ISO 294-4 |
| 吸水率              |  |        |  |        |                                   |        |   |           |           |
| 饱和               | --   | --     | 5.7  | --     | --                                | --     | --                                      | %         | ASTM D570 |
| 饱和, 23°C         | 6.5  | --     | 5.7  | --     | --                                | --     | --                                      | %         | ISO 62    |
| 平衡, 50% RH       | --   | --     | 1.7  | --     | --                                | --     | --                                      | %         | ASTM D570 |
| 平衡, 23°C, 50% RH | 1.9  | --     | 1.7  | --     | 1.7                               | --     | --                                      | %         | ISO 62    |
| 机械性能             | Akulon®<br>Ultraflow<br>K-<br>FHGM24<br>(干燥) | (调节后的) | Ultramid®<br>B3GM35<br>BKQ642<br>23220<br>(干燥) | (调节后的) | Akulon®<br>K224-<br>LGM35<br>(干燥) | (调节后的) | Ultramid®<br>B3WGM2<br>4 HPX<br>BK23210 | 单位制       | 测试方法      |
| 拉伸模量             |  |        |  |        |                                   |        |   |           | ISO 527-1 |
| --               | 7500   | 3500   | --   | --     | 10500                             | 5000   | --                                      | MPa       |           |
| -40°C            | --   | --     | --   | --     | 11000                             | --     | --                                      | MPa       |           |
| 23°C             | --   | --     | 9000   | --     | --                                | --     | 7900                                    | MPa       |           |
| 120°C            | 1950   | --     | --   | --     | --                                | --     | --                                      | MPa       |           |
| 抗张强度             |  |        |  |        |                                   |        |   |           |           |
| 断裂, 23°C         | --   | --     | 130  | 65.0   | --                                | --     | --                                      | MPa       | ASTM D638 |
| 断裂               | 97.0   | 55.0   | --   | --     | 135                               | 70.0   | --                                      | MPa       | ISO 527-2 |
| 断裂, -40°C        | --   | --     | --   | --     | 180                               | --     | --                                      | MPa       | ISO 527-2 |
| 断裂, 23°C         | --   | --     | 130  | --     | --                                | --     | 110                                     | MPa       | ISO 527-2 |
| 断裂, 120°C        | 30.0   | --     | --   | --     | --                                | --     | --                                      | MPa       | ISO 527-2 |



| 机械性能                        | Akulon®<br>Ultraflow<br>K-<br>FHGM24<br>(干燥) | (调节后<br>的) | Ultramid®<br>B3GM35<br>BKQ642<br>23220<br>(干燥) | (调节后<br>的) | Akulon®<br>K224-<br>LGM35<br>(干燥) | (调节后<br>的) | Ultramid®<br>B3WGM2<br>4 HPX<br>BK23210 | 单位制   | 测试方法        |
|-----------------------------|--|------------|--|------------|-----------------------------------|------------|---|-------|-------------|
| 伸长率                         |  |            |  |            |                                   |            |   |       |             |
| 断裂, 23°C                    | --   | --         | 2.7  | --         | --                                | --         | --                                      | %     | ASTM D638   |
| 断裂                          | 2.3  | 5.0        | --   | --         | 2.4                               | 5.0        | --                                      | %     | ISO 527-2   |
| 断裂, -40°C                   | --   | --         | --   | --         | 2.5                               | --         | --                                      | %     | ISO 527-2   |
| 断裂, 23°C                    | --   | --         | 2.7  | --         | --                                | --         | 3.0                                     | %     | ISO 527-2   |
| 断裂, 120°C                   | 3.7  | --         | --   | --         | --                                | --         | --                                      | %     | ISO 527-2   |
| 弯曲模量                        |  |            |  |            |                                   |            |   |       | ISO 178     |
| --                          | 6750   | 3250       | --   | --         | 10500                             | 5600       | --                                      | MPa   |             |
| 23°C                        | --   | --         | --   | --         | --                                | --         | 7960                                    | MPa   |             |
| 120°C                       | 2100   | --         | --   | --         | --                                | --         | --                                      | MPa   |             |
| 160°C                       | 1900   | --         | --   | --         | --                                | --         | --                                      | MPa   |             |
| 弯曲应力                        |  |            |  |            |                                   |            |   |       | ISO 178     |
| --                          | 145  | 75.0       | --   | --         | 195                               | 105        | --                                      | MPa   |             |
| 120°C                       | 45.0   | --         | --   | --         | --                                | --         | --                                      | MPa   |             |
| 160°C                       | 35.0   | --         | --   | --         | --                                | --         | --                                      | MPa   |             |
| Weldline Strain (4.00 mm)   | 0.90   | 1.2        | --   | --         | --                                | --         | --                                      | %     | ISO 527-2   |
| Weldline Strength (4.00 mm) | 51.0   | 23.0       | --   | --         | --                                | --         | --                                      | MPa   | ISO 527-2   |
| 冲击性能                        | Akulon®<br>Ultraflow<br>K-<br>FHGM24<br>(干燥) | (调节后<br>的) | Ultramid®<br>B3GM35<br>BKQ642<br>23220<br>(干燥) | (调节后<br>的) | Akulon®<br>K224-<br>LGM35<br>(干燥) | (调节后<br>的) | Ultramid®<br>B3WGM2<br>4 HPX<br>BK23210 | 单位制   | 测试方法        |
| 简支梁缺口冲击强度                   |  |            |  |            |                                   |            |   |       |             |
| -30°C                       | 4.0  | 4.0        | --   | --         | 3.5                               | 3.0        | --                                      | kJ/m² | ISO 179/1eA |
| 23°C                        | --   | --         | 3.9  | --         | --                                | --         | 4.4                                     | kJ/m² | ISO 179     |
| 23°C                        | 4.0  | 6.0        | --   | --         | 4.5                               | 6.0        | --                                      | kJ/m² | ISO 179/1eA |
| 简支梁无缺口冲击强度                  |  |            |  |            |                                   |            |   |       | ISO 179/1eU |
| -30°C                       | 30   | 30         | --   | --         | 40                                | 35         | --                                      | kJ/m² |             |
| 23°C                        | 35   | 45         | --   | --         | 40                                | 40         | --                                      | kJ/m² |             |
| 悬壁梁缺口冲击强度                   |  |            |  |            |                                   |            |   |       |             |
| -40°C                       | --   | --         | 40   | --         | --                                | --         | --                                      | J/m   | ASTM D256   |
| 23°C                        | --   | --         | 53   | 130        | --                                | --         | --                                      | J/m   | ASTM D256   |
| -40°C                       | --   | --         | --   | --         | --                                | --         | 4.4                                     | kJ/m² | ISO 180     |
| 23°C                        | --   | --         | --   | --         | --                                | --         | 5.2                                     | kJ/m² | ISO 180     |



| 热性能                           | Akulon®<br>Ultraflow<br>K-<br>FHGM24<br>(干燥) | (调节后的)  | Ultramid®<br>B3GM35<br>BKQ642<br>23220<br>(干燥) | (调节后的) | Akulon®<br>K224-<br>LGM35<br>(干燥) | (调节后的)  | Ultramid®<br>B3WGM2<br>4 HPX<br>BK23210 | 单位制      | 测试方法          |
|-------------------------------|--|---------|--|--------|-----------------------------------|---------|---|----------|---------------|
| 载荷下热变形温度                      |  |         |  |        |                                   |         |   |          |               |
| 0.45 MPa, 未退火                 | --   | --      | 215  | --     | --                                | --      | --                                      | °C       | ASTM D648     |
| 0.45 MPa, 未退火                 | 210  | --      | 214  | --     | 215                               | --      | 210                                     | °C       | ISO 75-2/B    |
| 1.8 MPa, 未退火                  | --   | --      | 200  | --     | --                                | --      | --                                      | °C       | ASTM D648     |
| 1.8 MPa, 未退火                  | 180  | --      | 198  | --     | 205                               | --      | 190                                     | °C       | ISO 75-2/A    |
| 熔融温度                          |  |         |  |        |                                   |         |   |          |               |
| -- <sup>4</sup>               | 220  | --      | --   | --     | 220                               | --      | --                                      | °C       | ISO 11357-3   |
| --                            | --   | --      | 220  | --     | --                                | --      | --                                      | °C       | ASTM D3418    |
| --                            | --   | --      | 220  | --     | --                                | --      | 220                                     | °C       | ISO 3146      |
| 线形热膨胀系数                       |  |         |  |        |                                   |         |   |          | ISO 11359-2   |
| 流动                            | 3.5E-5                                       | --      | --   | --     | 3.5E-5                            | --      | --                                      | cm/cm/°C |               |
| 垂直                            | 6.0E-5                                       | --      | --   | --     | 5.0E-5                            | --      | --                                      | cm/cm/°C |               |
| Effective Thermal Diffusivity | 1.16E-7                                      | --      | --   | --     | --                                | --      | --                                      | m²/s     |               |
| 电气性能                          | Akulon®<br>Ultraflow<br>K-<br>FHGM24<br>(干燥) | (调节后的)  | Ultramid®<br>B3GM35<br>BKQ642<br>23220<br>(干燥) | (调节后的) | Akulon®<br>K224-<br>LGM35<br>(干燥) | (调节后的)  | Ultramid®<br>B3WGM2<br>4 HPX<br>BK23210 | 单位制      | 测试方法          |
| 表面电阻率                         | --   | 1.0E+13 | --   | --     | --                                | 1.0E+13 | --                                      | ohms     | IEC 62631-3-2 |
| 体积电阻率                         |  |         |  |        |                                   |         |   |          |               |
| 1.50 mm                       | --   | --      | > 1.0E+15                                      | --     | --                                | --      | --                                      | ohms·cm  | ASTM D257     |
| --                            | --   | --      | > 1.0E+15                                      | --     | --                                | --      | --                                      | ohms·cm  | IEC 60093     |
| --                            | 1.0E+12                                      | 1.0E+10 | --   | --     | 1.0E+12                           | 1.0E+10 | --                                      | ohms·m   | IEC 62631-3-1 |
| 介电强度                          | --   | --      | --   | --     | 35                                | 30      | --                                      | kV/mm    | IEC 60243-1   |
| 相对电容率                         |  |         |  |        |                                   |         |   |          | IEC 62631-2-1 |
| 1 MHz                         | 3.30   | 4.50    | --   | --     | 3.30                              | 4.50    | --                                      |          |               |
| 100 Hz                        | 3.50   | 14.0    | --   | --     | 3.50                              | 14.0    | --                                      |          |               |
| 耗散因数                          |  |         |  |        |                                   |         |   |          | IEC 62631-2-1 |
| 100 Hz                        | 5.0E-3                                       | 3200    | --   | --     | 5.0E-3                            | 3200    | --                                      |          |               |
| 1 MHz                         | 0.014  | 1200    | --   | --     | 0.014                             | 1200    | --                                      |          |               |
| 漏电起痕指数                        | 500  | --      | --   | --     | --                                | --      | --                                      | V        | IEC 60112     |

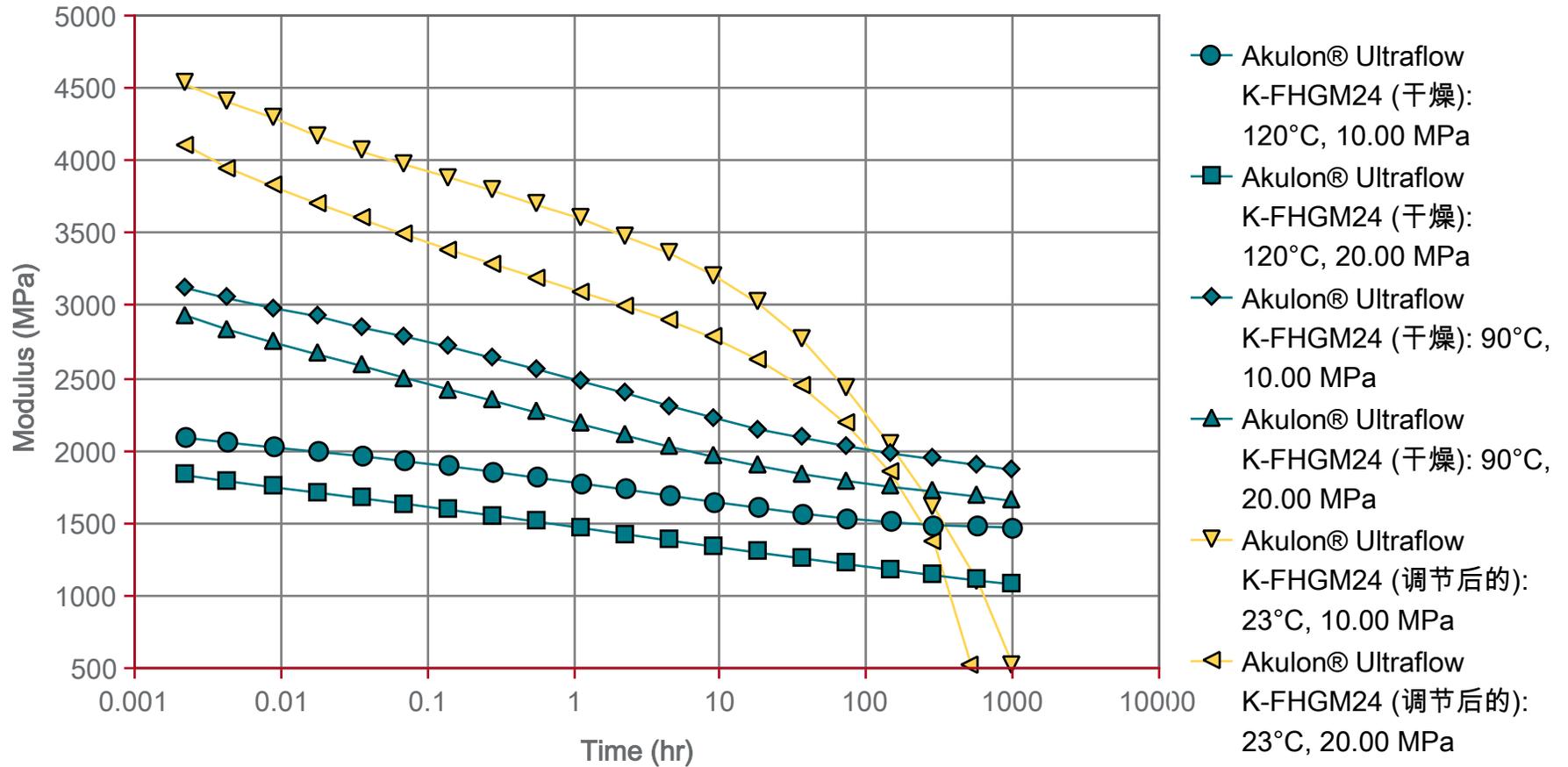


| 充模分析  | Akulon®<br>Ultraflow<br>K-<br>FHGM24<br>(干燥) | (调节后<br>的) | Ultramid®<br>B3GM35<br>BKQ642<br>23220<br>(干燥) | (调节后<br>的) | Akulon®<br>K224-<br>LGM35<br>(干燥) | (调节后<br>的) | Ultramid®<br>B3WGM2<br>4 HPX<br>BK23210 | 单位制     | 测试方法       |
|-------|--|------------|--|------------|-----------------------------------|------------|---|---------|------------|
| 熔体密度  | 1.17   | --         | --   | --         | --                                | --         | --                                      | g/cm³   |            |
| 熔体比热  | 2310   | --         | --   | --         | --                                | --         | --                                      | J/kg/°C |            |
| 熔体导热性 | 0.32   | --         | --   | --         | --                                | --         | --                                      | W/m/K   | ASTM E1461 |

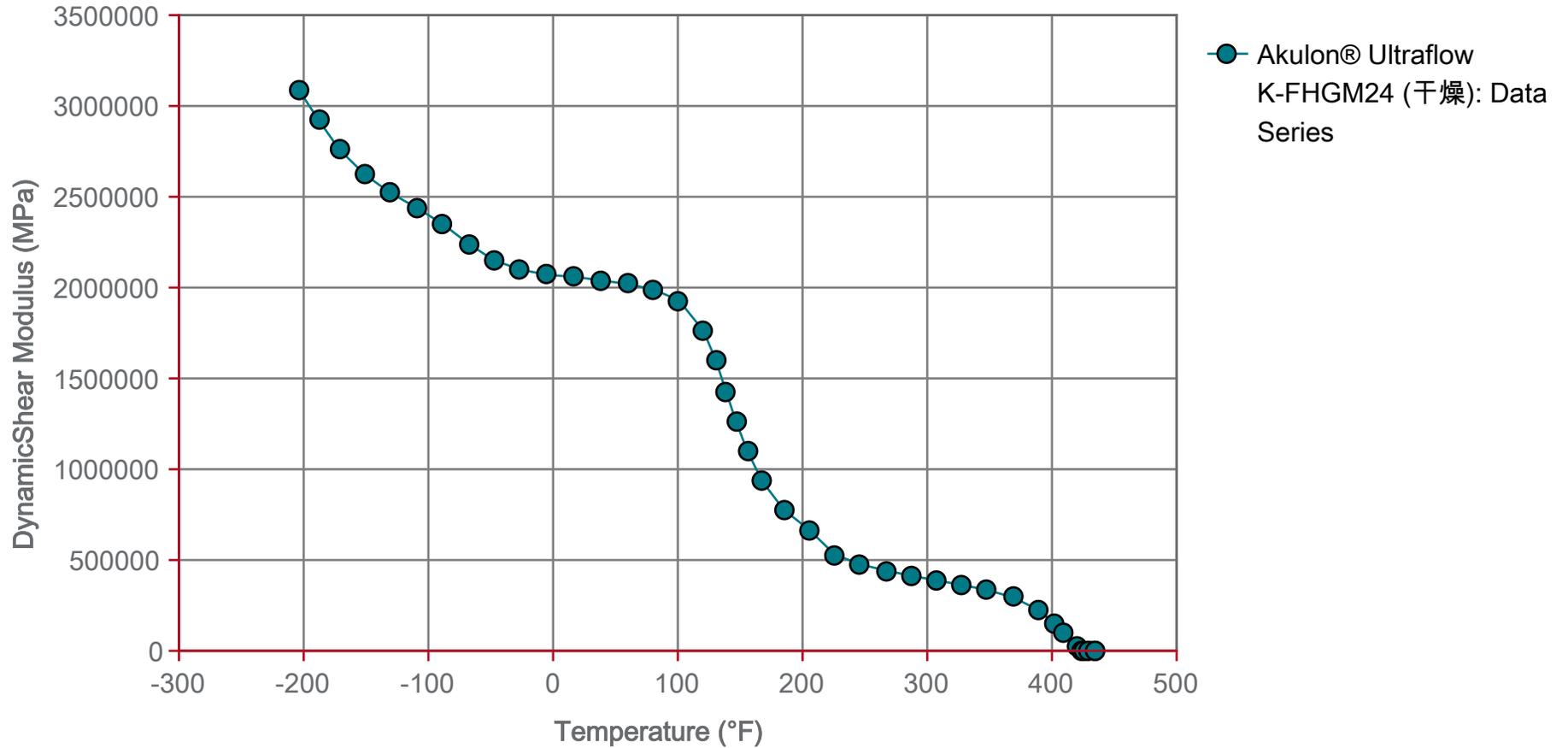
| 注射         | Akulon® Ultraflow<br>K-FHGM24<br>(干燥) | Ultramid®<br>B3GM35 BKQ642<br>23220<br>(干燥) | Akulon®<br>K224-LGM35<br>(干燥) | Ultramid®<br>B3WGM24 HPX<br>BK23210 | 单位制 |
|------------|---------------------------------------|---|-------------------------------|-------------------------------------|-----|
| 干燥温度       | --                                    | 83  | --                            | 83                                  | °C  |
| 干燥时间       | --                                    | 2.0 到 4.0                                   | --                            | 2.0 到 4.0                           | hr  |
| 建议的最大水分含量  | --                                    | 0.15  | --                            | 0.15                                | %   |
| 加工 (熔体) 温度 | --                                    | 270 到 295                                   | --                            | 270 到 295                           | °C  |
| 模具温度       | --                                    | 80 到 95                                     | --                            | 80 到 95                             | °C  |
| 注塑压力       | --                                    | 3.50 到 12.5                                 | --                            | 3.50 到 12.5                         | MPa |
| 注射速度       | --                                    | 快速  | --                            | 快速                                  |     |



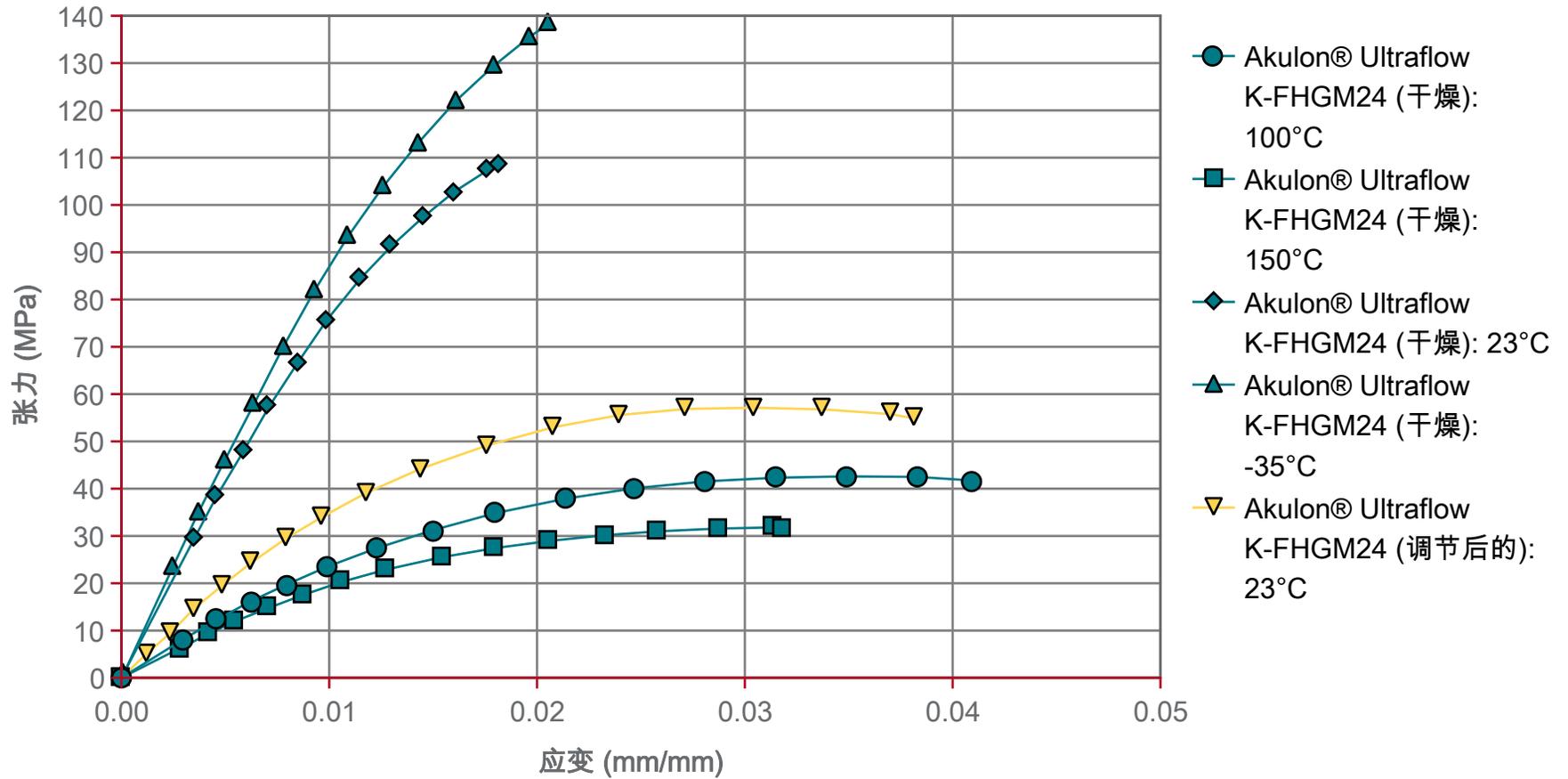
Creep Modulus vs. Time (ISO 11403-1)



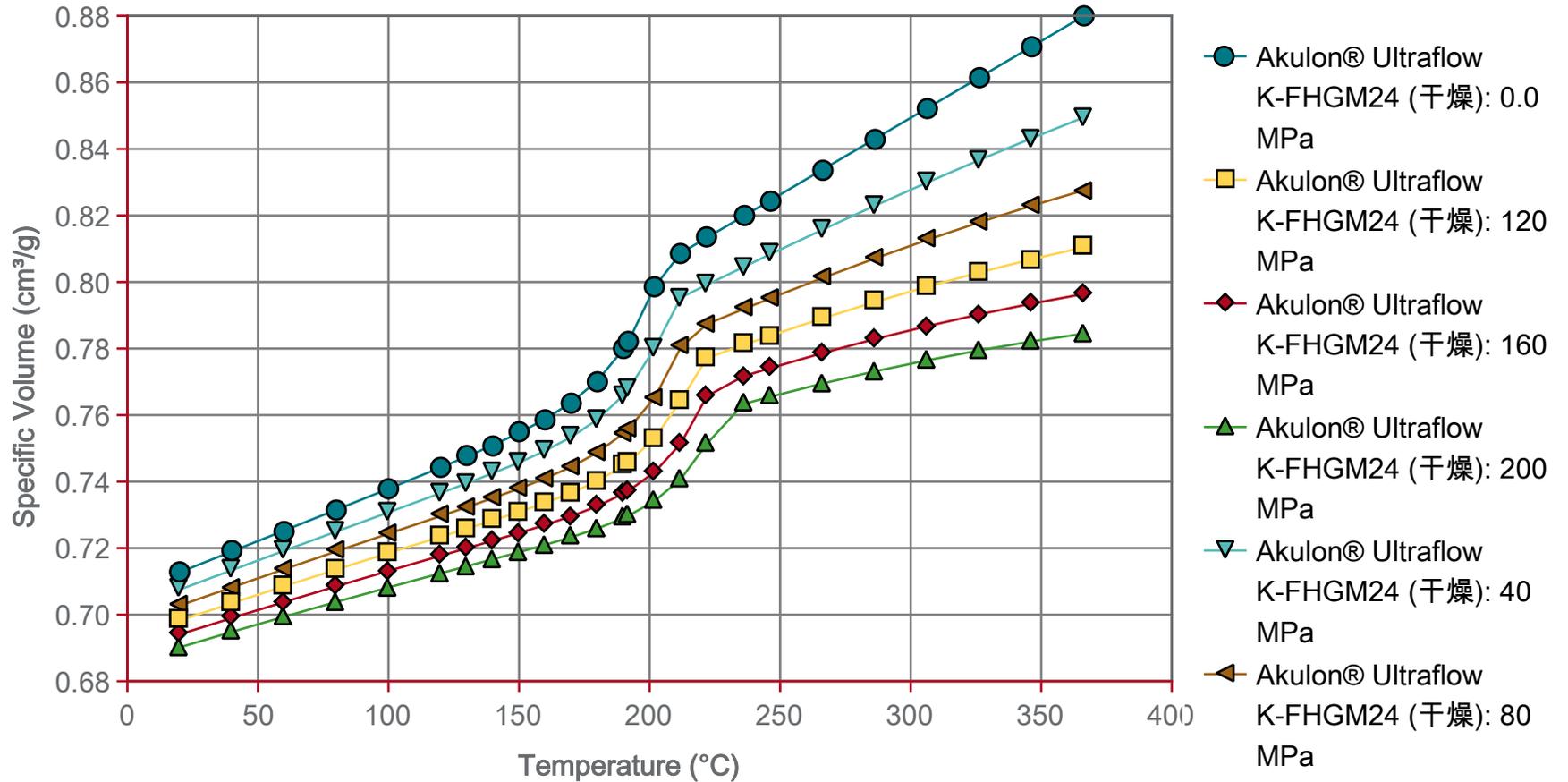
Shear Modulus vs. Temperature, Dynamic (ISO 11403-1)



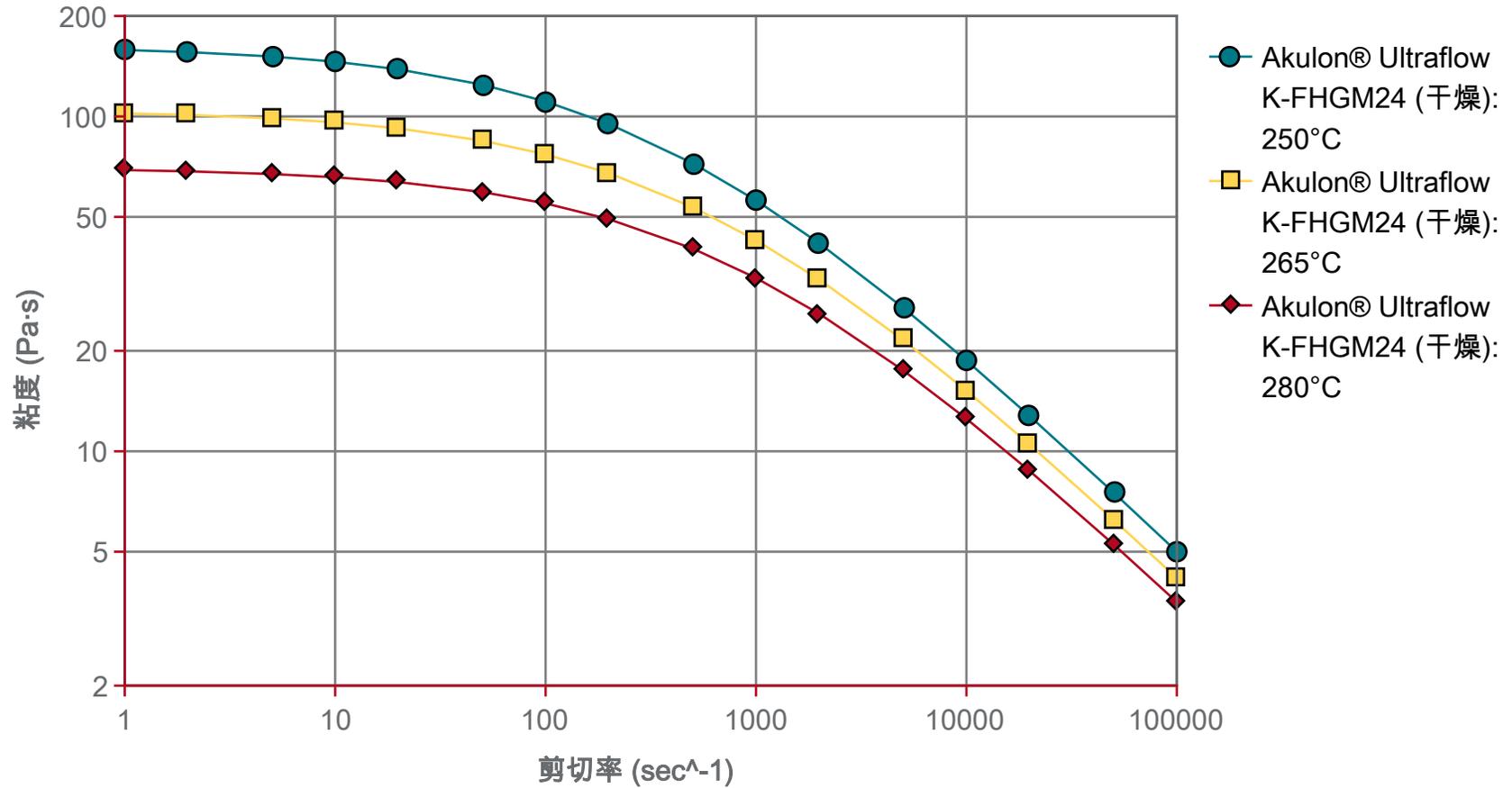
等温应力与应变 (ISO 11403-1)



Specific Volume vs Temperature (ISO 11403-2)



粘度与剪切率 (ISO 11403-2)



备注

<sup>1</sup> 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。

<sup>2</sup> 一般属性：这些不能被视为规格。

<sup>3</sup> 2.16 kg

<sup>4</sup> 10°C/min



## 购买地点

| 供应商                           |   |
|-------------------------------|---|
| Akulon® Ultraflow K-FHGM24    | <b>DSM Engineering Materials</b><br>Web: <a href="http://www.dsm.com/contactdep">http://www.dsm.com/contactdep</a>  |
| Ultramid® B3GM35 BKQ642 23220 | <b>BASF Corporation</b><br>Wyandotte, Wyandotte USA<br>电话: 800-545-8359<br>Web: <a href="https://www.basf.com/us/en.html">https://www.basf.com/us/en.html</a> |
| Akulon® K224-LGM35            | <b>DSM Engineering Materials</b><br>Web: <a href="http://www.dsm.com/contactdep">http://www.dsm.com/contactdep</a>  |
| Ultramid® B3WGM24 HPX BK23210 | <b>BASF Corporation</b><br>Wyandotte, Wyandotte USA<br>电话: 800-545-8359<br>Web: <a href="https://www.basf.com/us/en.html">https://www.basf.com/us/en.html</a> |



## 分销商

Akulon® Ultraflow K-FHGM24

**Channel Prime Alliance**

电话: 800-247-8038  
 Web: <http://www.channelpa.com/>  
 供货地区: North America

**Nexeo Plastics**

*Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at [www.nexeoplastics.com](http://www.nexeoplastics.com).*

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 Web: <https://www.nexeoplastics.com/>  
 供货地区: North America

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 供货地区: Belgium, Denmark, Finland, France, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, United Kingdom

**RESINEX Group**

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 Web: <http://www.resinex.com/>  
 供货地区: Europe

**TER HELL Plastic GmbH**

*TER HELL Plastic is a Pan European distribution company. Contact TER HELL Plastic for availability of individual products by country.*

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 Web: <https://www.terplastics.com/>  
 供货地区: Austria, Bulgaria, Czech Republic, France, Germany, Hungary, Poland, Romania, Slovakia, Slovenia, Switzerland

**广州三聚化工科技有限公司**

电话: +86-20-3466-7988  
 Web: <http://3polymer.com>  
 供货地区: China

Ultramid® B3GM35 BKQ642 23220

**Amco Polymers**

电话: 800-262-6685  
 Web: <http://www.amcopolymers.com/>  
 供货地区: North America

**Entec Polymers**

电话: 833-319-0299  
 Web: [https://www.entecpolymers.com/?utm\\_source=ul&utm\\_medium=paid%20association&utm\\_campaign=entec%20%7C%20entec%201&utm\\_term=ul%20%7C%20where%20to%20buy](https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%201&utm_term=ul%20%7C%20where%20to%20buy)  
 供货地区: North America



**M. Holland Canada Company**

电话: 905-665-1168

Web: <http://www.mholland.com/>

供货地区: Canada

**M. Holland Company**

电话: 855-497-1403

Web: <http://www.mholland.com/>

供货地区: Mexico, United States

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Akulon® K224-LGM35

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电话: +34-93-480-9125

Web: <https://www.nexeoplastics.com/>

供货地区: Belgium, Denmark, Finland, France, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Russian Federation, Spain, Sweden, United Kingdom

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Web: <http://www.resinex.com/>

供货地区: Europe

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Web: <https://www.terplastics.com/>

供货地区: Austria, Bulgaria, Czech Republic, France, Germany, Hungary, Poland, Romania, Slovakia, Slovenia, Switzerland



广州三聚化工科技有限公司  
电话: +86-20-3466-7988  
Web: <http://3polymer.com>  
供货地区: China

Ultradid® B3WGM24 HPX BK23210

**Amco Polymers**  
电话: 800-262-6685  
Web: <http://www.amcopolymers.com/>  
供货地区: North America

**Entec Polymers**  
电话: 833-319-0299  
Web: [https://www.entecpolymers.com/?utm\\_source=ul&utm\\_medium=paid%20association&utm\\_campaign=entec%20%7C%20entec%201&utm\\_term=ul%20%7C%20where%20to%20buy](https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%201&utm_term=ul%20%7C%20where%20to%20buy)  
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