

TECHNICAL DATA SHEET

TECHNYL C 116 BL 5130
(Previously DOMAMID 6LV 100 BL55130)

Polyamide 6, improved flowability, for injection moulding

General

| | | |
|-----------------------|------------------------------|----------------|
| Feature | Improved flowability | |
| Polymer type | PA6 (Polyamide 6) | |
| Processing technology | Injection molding | |
| Certification | RoHS EC 1907/2006 (REACH) | UL-Yellow Card |
| Colors available | Black Blue Red | Grey White |
| Forms | Pellets | |

Product identification

| | |
|-----------------------|----------------|
| ISO 1043 abbreviation | PA6 |
| ISO 16396 designation | PA6,M1,S12-030 |

| | Condition | Standard | Unit | Value |
|------------------------------|----------------|-----------------|-------------------|-----------|
| Physical properties | | | | |
| Density | | ISO 1183 | g/cm ³ | 1.13 |
| Humidity absorption | T=23°C, 50% RH | ISO 62 | % | 3.3 - 3.4 |
| Water absorption | 24 hr, 23°C | ISO 62 | % | 1.8 - 1.9 |
| Water absorption, saturation | | | % | 9.1 |
| Molding shrinkage, parallel | | ISO 294-4, 2577 | % | 0.9 - 1.1 |
| Molding shrinkage, normal | | ISO 294-4, 2577 | % | 1.1 - 1.3 |

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| | Condition | Standard | Unit | Value |
|---------------------------------------|-----------|--------------|-------|---------------------|
| Mechanical properties | | | | dam / cond.* |
| Tensile modulus | 1 mm/min | ISO 527-1/-2 | MPa | 2900 / - |
| Strain at break | | ISO 527-1/-2 | % | 16 / - |
| Yield stress | | ISO 527-1/-2 | MPa | 70 / - |
| Flexural modulus, ISO 178 | 2 mm/min | ISO 178 | MPa | 2600 / - |
| Charpy impact strength, +23°C | +23°C | ISO 179/1eU | | NB / NB |
| Charpy notched impact strength, +23°C | +23°C | ISO 179/1eA | kJ/m² | 5 / - |
| Izod impact strength, +23°C | +23°C | ISO 180/1U | | NB / NB |
| Izod notched impact strength, +23°C | +23°C | ISO 180/1A | kJ/m² | 5 / - |


Thermal properties

| | | | | |
|-------------------------------|--|-------------|----|-----|
| Melting temperature, 10°C/min | | ISO 11357-1 | °C | 221 |
|-------------------------------|--|-------------|----|-----|

Electrical properties

| | | | | |
|---------------------|--|---------------|-------|--------|
| Volume resistivity | | IEC 62631-3-1 | ohm.m | 1E+013 |
| Surface resistivity | | IEC 62631-3-1 | ohm | 1E+013 |

Burning behaviour

| | | | | |
|---|---|-----------|--|------|
| UL Yellow Card availability  | Click here to have access to the UL Yellow Card → E170540 | | | |
| Flammability, 1.5 mm | 1.5 mm | UL 94 | | V2 |
| Burning rate, FMVSS, Thickness 1 mm | | FMVSS 302 | | <100 |

*: conditioned according to ISO 1110

Processing conditions

| | |
|-------------------------------|---|
| Drying temperature/time | 75-85°C / 2-4h (with dew point of dried air < -30 °C) |
| Recommended melt temperature | 230 - 250 °C |
| Recommended mould temperature | 60 - 90 °C |

Disclaimer

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