

## Technical Data Sheet

### Schulablend M/MK SF UV BUE48345



Acrylonitrile Butadiene Styrene + PA

#### Product Description

ABS/PA6 blend with high impact strength, UV stabilised. (Former name: SCHULABLEND M/MK SF UV)

Processing Method Injection Molding

Resin ID PA+ABS

| Typical Properties                                                  | Nominal Value | Units                   | Test Method |
|---------------------------------------------------------------------|---------------|-------------------------|-------------|
| <b>Physical</b>                                                     |               |                         |             |
| Melt Volume Flow Rate, (260 °C/5.0 kg)                              | 15            | cm <sup>3</sup> /10 min | ISO 1133    |
| Density, (Method A)                                                 | 1.08          | g/cm <sup>3</sup>       | ISO 1183    |
| <b>Mechanical</b>                                                   |               |                         |             |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                       | 40.0          | MPa                     | ISO 527-2   |
| Tensile Strain at Break, (Type 1A, 5 mm/min)                        | 120           | %                       | ISO 527-2   |
| Flexural Modulus, (2.0 mm/min)                                      | 1300          | MPa                     | ISO 178     |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                       | 4.0           | %                       | ISO 527-2   |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 1700          | MPa                     | ISO 527-1   |
| Flexural Stress                                                     |               |                         |             |
| (2.0 mm/min, 3.5%)                                                  | 37.0          | MPa                     | ISO 178     |
| (2.0 mm/min, 7.0%)                                                  | 46.0          | MPa                     | ISO 178     |
| <b>Impact</b>                                                       |               |                         |             |
| Charpy Impact Strength - Notched                                    |               |                         |             |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 80            | kJ/m <sup>2</sup>       | ISO 179     |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 18            | kJ/m <sup>2</sup>       | ISO 179     |
| Charpy Impact Strength - Unnotched                                  |               |                         |             |
| (23 °C, Type 1, Edgewise)                                           | No Break      |                         | ISO 179     |
| (-30 °C, Type 1, Edgewise)                                          | No Break      |                         | ISO 179     |
| <b>Hardness</b>                                                     |               |                         |             |
| Ball Indentation Hardness, (H 358/30)                               | 91.0          | MPa                     | ISO 2039-1  |
| <b>Thermal</b>                                                      |               |                         |             |
| Vicat Softening Temperature                                         |               |                         |             |
| (B (50N), 50 °C/h)                                                  | 140           | °C                      | ISO 306     |
| (A (10N), 50 °C/h)                                                  | 200           | °C                      | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 95.0          | °C                      | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 68.0          | °C                      | ISO 75-2/A  |
| <b>Electrical</b>                                                   |               |                         |             |

|                     |          |       |               |
|---------------------|----------|-------|---------------|
| Volume Resistivity  | >1.0E+13 | ohm*m | IEC 62631-3-1 |
| Surface Resistivity | >1.0E+15 | ohm   | IEC 60093     |

#### Flammable

|              |      |        |           |
|--------------|------|--------|-----------|
| Burning Rate |      |        |           |
| (2.00 mm)    | <100 | mm/min | ISO 3795  |
| (2.00 mm)    | <100 | mm/min | FMVSS 302 |

#### UL Information

|                             |    |  |                      |
|-----------------------------|----|--|----------------------|
| Flammability Classification |    |  |                      |
| (1.5 mm)                    | HB |  | IEC 60695-11-10, -20 |
| (3.0 mm)                    | HB |  | IEC 60695-11-10, -20 |

| Injection Parameters   | Nominal    |       |
|------------------------|------------|-------|
|                        | Value      | Units |
| Drying Time            | 4          | hr    |
| Drying Temperature     | 80         | °C    |
| Processing (Melt) Temp | 230 to 270 | °C    |
| Mold Temperature       | 40 to 80   | °C    |