

## Technical Data Sheet

### *Schulablend* M/MX 50 UV BLK71905



Polycarbonate + PBT

#### Product Description

PC/PBT- blend

**Processing Method** Injection Molding

**Resin ID** PC+PBT

| Typical Properties                                                   | Nominal Value | Units                   | Test Method |
|----------------------------------------------------------------------|---------------|-------------------------|-------------|
| <b>Physical</b>                                                      |               |                         |             |
| Melt Volume Flow Rate, (250 °C/5.0 kg)                               | 43            | cm <sup>3</sup> /10 min | ISO 1133    |
| Density, (Method A)                                                  | 1.20          | g/cm <sup>3</sup>       | ISO 1183    |
| <b>Mechanical</b>                                                    |               |                         |             |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                        | 54.0          | MPa                     | ISO 527-2   |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                        | 3.8           | %                       | ISO 527-2   |
| Tensile Modulus, (1 mm/min, Type 1A)                                 | 2200          | MPa                     | ISO 527-1   |
| <b>Impact</b>                                                        |               |                         |             |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 40            | 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)                                           | 43            | kJ/m <sup>2</sup>       | ISO 179     |
| <b>Hardness</b>                                                      |               |                         |             |
| Ball Indentation Hardness, (H 358/30)                                | 113           | MPa                     | ISO 2039-1  |
| <b>Thermal</b>                                                       |               |                         |             |
| Vicat Softening Temperature, (B (50N), 50 °C/h)                      | 102           | °C                      | ISO 306     |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)  | 65.0          | °C                      | ISO 75-2/A  |