

## Technical Data Sheet

### Schulblend M/MW UV BLK72875



Acrylonitrile Styrene Acrylate + PA

#### Product Description

ASA/PA blend with excellent light stability, impact properties and with high heat resistance

#### Processing Method

Extrusion; Injection Molding

| Typical Properties                                                  | Nominal Value | Units                   | Test Method |
|---------------------------------------------------------------------|---------------|-------------------------|-------------|
| <b>Physical</b>                                                     |               |                         |             |
| Melt Volume Flow Rate, (250 °C/5.0 kg)                              | 15            | cm <sup>3</sup> /10 min | ISO 1133    |
| Density, (Method A)                                                 | 1.11          | g/cm <sup>3</sup>       | ISO 1183    |
| <b>Mechanical</b>                                                   |               |                         |             |
| Tensile Stress at Yield                                             |               |                         |             |
| (Type 1A, 50 mm/min)                                                | 44.0          | MPa                     | ISO 527-2   |
| (Type 1A, 50 mm/min) - Conditioned                                  | 34.0          | MPa                     | ISO 527-2   |
| Nominal Tensile Strain at Break                                     |               |                         |             |
| (50 mm/min, Type 1A) - Conditioned                                  | >200          | %                       | ISO 527-2   |
| (50 mm/min, Type 1A)                                                | >100          | %                       | ISO 527-2   |
| Tensile Modulus                                                     |               |                         |             |
| (1 mm/min, Type 1A)                                                 | 1800          | MPa                     | ISO 527-1   |
| (1 mm/min, Type 1A) - Conditioned                                   | 800           | MPa                     | ISO 527-1   |
| <b>Impact</b>                                                       |               |                         |             |
| Charpy Impact Strength - Notched                                    |               |                         |             |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 21            | kJ/m <sup>2</sup>       | ISO 179     |
| (-20 °C, Type 1, Edgewise, Notch A)                                 | 10            | kJ/m <sup>2</sup>       | ISO 179     |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 8.0           | kJ/m <sup>2</sup>       | ISO 179     |
| (23 °C, Type 1, Edgewise, Notch A) - Conditioned                    | 40            | kJ/m <sup>2</sup>       | ISO 179     |
| Charpy Impact Strength - Unnotched                                  |               |                         |             |
| (23 °C, Type 1, Edgewise)                                           | No Break      |                         | ISO 179     |
| (-20 °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)                               | 95.0          | MPa                     | ISO 2039-1  |
| <b>Thermal</b>                                                      |               |                         |             |
| Vicat Softening Temperature                                         |               |                         |             |
| (B (50N), 50 °C/h)                                                  | 135           | °C                      | ISO 306     |
| (A (10N), 50 °C/h)                                                  | 208           | °C                      | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa)             | 56            | °C                      | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 96.0          | °C                      | ISO 75-2/A  |
| <b>Injection Parameters</b>                                         |               |                         |             |
|                                                                     | Nominal Value | Units                   |             |
| Drying Time                                                         | 4             | hr                      |             |
| Drying Temperature                                                  | 80            | °C                      |             |
| Processing (Melt) Temp                                              | 230 to 270    | °C                      |             |
| Mold Temperature                                                    | 40 to 80      | °C                      |             |