Technical Data Sheet

# *Schulablend* M/MW 5501 U GRY60985

Acrylonitrile Styrene Acrylate + PA

## Product Description

Good flowing ASA/PA 6-blend with high UV-stability. Material with low gloss level.Applications: automotive interior. (Former name: SCHULABLEND M/MW UV K2325)

| | |
|---|---|
| **Processing Method** | Injection Molding |
| **Attribute** | Good Surface Finish; Light Stabilized; Low Emissions; Low Gloss; UV Stabilized |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Volume Flow Rate | | | |
| (250 °C/5.0 kg) | 3.0 | cm³/10 min | ISO 1133 |
| (260 °C/5.0 kg) | 12 | cm³/10 min | ISO 1133 |
| Density, (Method A) | 1.10 | g/cm³ | ISO 1183 |
| **Mechanical** | | | |
| Tensile Stress at Yield | | | |
| (Type 1A, 50 mm/min) | 44.0 | MPa | ISO 527-2 |
| (Type 1A, 50 mm/min) - Conditioned | 35.0 | MPa | ISO 527-2 |
| Nominal Tensile Strain at Break | | | |
| (50 mm/min, Type 1A) - Conditioned | 170 | % | ISO 527-2 |
| (50 mm/min, Type 1A) | >100 | % | ISO 527-2 |
| Tensile Strain at Yield | | | |
| (Type 1A, 50 mm/min) | 3.2 | % | ISO 527-2 |
| (Type 1A, 50 mm/min) - Conditioned | 60 | % | ISO 527-2 |
| Tensile Modulus | | | |
| (1 mm/min, Type 1A) | 1800 | MPa | ISO 527-1 |
| (1 mm/min, Type 1A) - Conditioned | 750 | MPa | ISO 527-1 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 100 | kJ/m² | ISO 179 |
| (-30 °C, Type 1, Edgewise, Notch A) | 18 | kJ/m² | ISO 179 |
| (23 °C, Type 1, Edgewise, Notch A) - Conditioned | 110 | kJ/m² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (-30 °C) | No Break | | ISO 179 |
| (23 °C, Type 1, Edgewise) | No Break | | ISO 179 |
| (23 °C, Type 1, Edgewise) - Conditioned | No Break | | ISO 179 |
| **Hardness** | | | |
| Ball Indentation Hardness, (H 358/30) | 100 | MPa | ISO 2039-1 |

| | | | |
|---|---|---|---|
| **Thermal** | | | |
| Vicat Softening Temperature | | | |
| (B (50N), 50 °C/h) | 117 | °C | ISO 306 |
| (A (10N), 50 °C/h) | 205 | °C | ISO 306 |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | 99 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 56.0 | °C | ISO 75-2/A |
| **Electrical** | | | |
| Volume Resistivity | >1.0E+13 | ohm*m | IEC 62631-3-1 |
| - Conditioned | >1.0E+10 | ohm*m | IEC 62631-3-1 |
| Surface Resistivity | >1.0E+15 | ohm | IEC 60093 |
| - Conditioned | >1.0E+12 | ohm | IEC 60093 |
| **Flammable** | | | |
| Burning Rate | | | |
| (2.00 mm) | 21 | mm/min | ISO 3795 |
| (2.00 mm) | 21 | mm/min | FMVSS 302 |
| **UL Information** | | | |
| Flame Rating | | | |
| (1.5 mm) | HB | | UL 94 |
| (3.0 mm) | HB | | UL 94 |

| 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 |