Technical Data Sheet

Schulablend M/MW 6501 U NAT

Acrylonitrile Styrene Acrylate + PA

Product Description

ASA/PA Blend with excellent light stability, impact properties and with high heat resistance. (Former name: SCHULABLEND M/MW UV K2358)

Processing Method Extrusion; Injection Molding

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (260 °C/5.0 kg)	4.0	cm³/10 min	ISO 1133
Density, (Method A)	1.10	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield			
(Type 1A, 50 mm/min)	43.0	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	180	%	ISO 527-2
(50 mm/min, Type 1A)	>100	%	ISO 527-2
Tensile Strain at Yield			
(Type 1A, 50 mm/min)	3.0	%	ISO 527-2
(Type 1A, 50 mm/min) - Conditioned	58	%	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	1850	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	700	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	90	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	15	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	8.0	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	130	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A) - Conditioned	10	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A) - Conditioned	15	kJ/m²	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
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
(-30 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
(-20 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179

Hardness			
Ball Indentation Hardness, (H 358/30)	95.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	126	°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
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 62631-3-2
- Conditioned	>1.0E+12	ohm	IEC 62631-3-2
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
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