

Technical Data Sheet

Schulablend M/MW 5501 U BLK71255



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	cm ³ /10 min	ISO 1133
(260 °C/5.0 kg)	12	cm ³ /10 min	ISO 1133
Density, (Method A)	1.10	g/cm ³	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/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	18	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	110	kJ/m ²	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	FMVSS 302
(2.00 mm)	21	mm/min	ISO 3795
UL Information			
Flame Rating			
(1.5 mm)	HB		UL 94
(3.0 mm)	HB		UL 94

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