

Technical Data Sheet

Schulamid XM GF 35 BLK

Polyamide 66 + PA 6I/6T

Product Description

35% glassfiber reinforced semi-aromatic Polyamide Compound with excellent rigity and strength, also if conditioned.

Processing Method	Injection Molding
Filler/Reinforcement	Glass Fiber, 35%
Resin ID	PA 66 + PA 6I/6T

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.43	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break			
(5 mm/min)	2.4	%	ISO 527-2
(5 mm/min) - Conditioned	2.8	%	ISO 527-2
Flexural Modulus	9800	MPa	ISO 178
Tensile Stress at Break			
(5 mm/min)	190	MPa	ISO 527-2
(5 mm/min) - Conditioned	160	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min)	10800	MPa	ISO 527-1
(1 mm/min) - Conditioned	10200	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min)	270	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	9.8	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	11	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch C)	8.8	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	70	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	60	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	70	kJ/m ²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (1.80 MPa)	230	°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

Comparative Tracking Index (CTI), (Solution A)	600	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
- Conditioned	>1.0E+12	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
Additional Information			
Water Absorption 23C/50RH	1.0 to 1.5	%	ISO 62
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		3.0 to 6.0	hr
Drying Temperature		80	°C
Suggested Max Moisture		0.040 to 0.10	%
Processing (Melt) Temp		280 to 300	°C
Mold Temperature		80 to 120	°C