Technical Data Sheet

Schulamid 6 GF60 BLACK 2-0400

Polyamide 6

Product Description

60% glass fiber reinforced Polyamide 6 with very high tensile strength and stiffness

Processing Method	Injection Molding
Filler/Reinforcement	Glass Fiber, 60%
Resin ID	PA 6 GF60

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.68	g/cm³	ISO 1183
Viscosity Number, (H2SO4 (Sulphuric Acid))	120	cm³/g	ISO 307
Mechanical			
Tensile Stress at Break, (Type 1A, 5 mm/min)	215	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	18500	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	14	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	13	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	20	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	80	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	77	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	82	kJ/m²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	215	°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)	30	mm/min	ISO 3795
(2.00 mm)	30	mm/min	FMVSS 302
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 4.0	hr
Drying Temperature	80	°C
Suggested Max Moisture	0.040 to 0.10	%
Processing (Melt) Temp	250 to 280	°C
Mold Temperature	60 to 100	°C