Technical Data Sheet

Schulamid XT200 GF30 EN NAT

Polyamide 66

Product Description

30% glass fiber reinforced Polyamide 66 for high temperature applications, electrically neutral

Processing Method	Injection Molding
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (275 °C/5.0 kg)	10	cm³/10 min	ISO 1133
Density, (Method A)	1.38	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (5 mm/min)	3.0	%	ISO 527-2
Flexural Modulus	10400	MPa	ISO 178
Tensile Stress at Break, (5 mm/min)	190	MPa	ISO 527-2
Tensile Modulus, (1 mm/min)	10000	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min, 3.5%)	285	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	10	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch C)	8.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	75	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	55	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 961/30)	265	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	207	°C	ISO 306
(A (10N), 50 °C/h)	235	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	221	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	202	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093
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	3.0 to 4.0	hr
Drying Temperature	80	°C
Suggested Max Moisture	0.040 to 0.10	%
Processing (Melt) Temp	270 to 290	°C
Mold Temperature	80 to 120	°C