Technical Data Sheet

Schulamid 6 BNT3000F LS GRN966177

Polyamide 6

Product Description
30% glass fiber reinforced Polyamid 6

Processing Method	Injection Molding
Filler/Reinforcement	Glass Fiber, 30%
Resin ID	PAM 6 GF30 UV

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.36	g/cm³	ISO 1183
Viscosity Number	140	cm³/g	ISO 307
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.3	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	8450	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	183	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	9500	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min, 4.0%)	255	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	12	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	9.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	90	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	70	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	210	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	220	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	200	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+16	ohm*cm	IEC 60093
Surface Resistivity	>1.0E+16	ohm	IEC 60093

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