Technical Data Sheet

Schulamid 6 GB30 U BLK968079

Polyamide 6

Product Description

30% glass beads reinforced Polyamide 6 with higher stiffness and dimension stability and UV-stabilizer

Processing Method	Injection Molding
Filler/Reinforcement	Glass Bead, 30%
Resin ID	PAM 6 GB 30

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.35	g/cm³	ISO 1183
Viscosity Number, (H2SO4 (Sulphuric Acid))	140	cm³/g	ISO 307
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	4.5	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	3500	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	62.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	4100	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	93.0	MPa	ISO 178
(2.0 mm/min, 6.0%)	105	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	3.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	40	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	28	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 961/30)	187	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	197	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	181	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	65.0	°C	ISO 75-2/A
Flammable			

Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302

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