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Technical Data Sheet

Schulamid 66 BNT4000 BLK

Polyamide 66

Product Description

40% glass fiber and mineral reinforced polyamide 66 compound

Processing Method	Injection Molding
Resin ID	PA66-GF-M

Typical Properties	Nominal Value	Units	Test Method
Mechanical			
Flexural Strain at Flexural Strength	2.8	%	ISO 178
Tensile Strain at Break, (Type 1A, 5 mm/min)	2.5	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	7700	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	120	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	9000	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min)	175	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	40	kJ/m²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	220	°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	280 to 300	°C
Mold Temperature	60 to 120	°C