Technical Data Sheet

Schulamid 66 GF43 NAT

Polyamide 66

Product Description

43% glass fiber reinforced, Polyamid 66

Processing Method	Injection Molding
Filler/Reinforcement	Glass Fiber, 43%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (275 °C/5.0 kg)	25	cm³/10 min	ISO 1133
Density, (Method A)	1.49	g/cm³	ISO 1183
Viscosity Number	145	cm³/g	ISO 307
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.0	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	12200	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	215	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	13500	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	325	MPa	ISO 178
(2.0 mm/min, 4.0%)	330	MPa	ISO 178
(2.0 mm/min, 4.0%)	335	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	15	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	10	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	No Break		ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	>250	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	>250	°C	ISO 75-2/A
Flammable			
Burning Rate			
(2.00 mm)	30	mm/min	ISO 3795
(2.00 mm)	30	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