

Technical Data Sheet

Schulamid 6 LGF30 12MM TOL NAT



Polyamide 6

Product Description

30% long glass fiber reinforced Polyamide 6

Processing Method Injection Molding
Filler/Reinforcement Long Glass Fiber, 30%
Resin ID PA6-GF30

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.37	g/cm ³	ISO 1183
Viscosity Number	155	cm ³ /g	ISO 307
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	2.6	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	3.6	%	ISO 527-2
Flexural Modulus	10600	MPa	ISO 178
Tensile Stress at Break			
(Type 1A, 5 mm/min)	200	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	120	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	10200	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	6400	MPa	ISO 527-1
Flexural Stress	300	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	19	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	15	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	25	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	65	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	55	kJ/m ²	ISO 179
(23 °C) - Conditioned	90	kJ/m ²	ISO 179-1/1eU
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	226	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	215	°C	ISO 75-2/A
Electrical			

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