

Technical Data Sheet

Schulamid 6 GF30 MO1 BLK



Polyamide 6

Product Description

30% glass fiber reinforced PA 6, with molybdenum sulfide for tribological applications

Processing Method	Injection Molding
Additive	Molybdenum Disulfide Lubricant
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.38	g/cm ³	ISO 1183
Mechanical			
Flexural Strain at Flexural Strength	4.2	%	ISO 178
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.2	%	ISO 527-2
Flexural Modulus	8000	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	170	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	9500	MPa	ISO 527-1
Flexural Stress	240	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	12	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	8.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	85	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	60	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	212	°C	ISO 306
(A (10N), 120 °C/h)	218	°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)	205	°C	ISO 75-2/A
Electrical			
Comparative Tracking Index (CTI)	450	V	IEC 60112
Flammable			

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

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