

Technical Data Sheet

Schulamid 6 GBF3010 H BLK968001



Polyamide 6

Product Description

30% glass fiber and glass bead reinforced Polyamide 6 with higher stiffness and dimension stability

Processing Method Injection Molding

Attribute Good Flow; Good Heat Aging Resistance; Good Surface Finish; Low Warpage; Oil Resistant

Filler/Reinforcement Glass Bead\Glass Fiber, 30%

Resin ID PA6-(GB20+GF10)

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.35	g/cm ³	ISO 1183
Viscosity Number	145	cm ³ /g	ISO 307
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	3.5	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	12	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	110	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	55.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	6000	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	3000	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	12	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	35	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	30	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	90	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness			
(H 358/30)	175	MPa	ISO 2039-1
(H 358/30) - Conditioned	115	MPa	ISO 2039-1
Ball Pressure Test, (115 °C)	Pass		IEC 60695-10-2

Thermal

Vicat Softening Temperature			
(B (50N), 50 °C/h)	210	°C	ISO 306
(A (10N), 50 °C/h)	218	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	215	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	190	°C	ISO 75-2/A

Electrical

Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
- Conditioned	>1.0E+10	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	450	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
- Conditioned	>1.0E+12	ohm	IEC 60093

Flammable

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

Additional Information

Water Absorption 23C/50RH	1.7	%	ISO 62
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UL Information

Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20

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