

Technical Data Sheet

Schulamid 6 GF15 HV BLK968070



Polyamide 6

Product Description

15% glass fibre reinforced Polyamide 6 with high viscosity

Processing Method	Injection Molding
Attribute	Good Toughness; High Viscosity; Oil Resistant
Filler/Reinforcement	Glass Fiber, 15%
Resin ID	PA6 GF15

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.23	g/cm ³	ISO 1183
Viscosity Number	170	cm ³ /g	ISO 307
Mechanical			
Flexural Strain at Flexural Strength	7	%	ISO 178
Tensile Strain at Break			
(Type 1A, 5 mm/min)	4.5	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	14	%	ISO 527-2
Flexural Modulus	4400	MPa	ISO 178
Tensile Stress at Break			
(Type 1A, 5 mm/min)	120	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	65.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	5700	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	3000	MPa	ISO 527-1
Flexural Stress	170	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	6.0	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	20	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	62	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	55	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
Thermal			

Vicat Softening Temperature			
(B (50N), 50 °C/h)	210	°C	ISO 306
(A (10N), 50 °C/h)	215	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	210	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	200	°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
Glow Wire Flammability Index			
(1.5 mm) - Conditioned	650	°C	IEC 60695-2-12
(3.0 mm) - Conditioned	650	°C	IEC 60695-2-12
Additional Information			
Water Absorption 23C/50RH	2.4	%	ISO 62
UL Information			
Flammability Classification			
(0.75 mm)	HB		IEC 60695-11-10, -20
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20
UL File Number	E86615		
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	