

Technical Data Sheet

Schulamid 66 GF15 HI H BLK968001



Polyamide 66

Product Description

15% glass fibre reinforced and impact modified polyamid 66-compound, heat stabilized.

Processing Method	Injection Molding
Attribute	Heat Stabilized; Impact Modified
Filler/Reinforcement	Glass Fiber, 15%
Resin ID	PA66I-GF15-T (ISO 1043)

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.20	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	3.8	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	15	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	4500	MPa	ISO 178
Tensile Stress at Break			
(Type 1A, 5 mm/min)	95.0	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	65.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	5400	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	3200	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min, 5.0%)	150	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	10	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	15	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	55	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	35	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	80	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	232	°C	ISO 306
(A (10N), 50 °C/h)	>250	°C	ISO 306

Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	>250 °C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	238 °C	ISO 75-2/A
Electrical		
Comparative Tracking Index (CTI)	350 V	IEC 60112
Flammable		
Burning Rate		
(2.00 mm)	30 mm/min	ISO 3795
(2.00 mm)	30 mm/min	FMVSS 302
Glow Wire Flammability Index		
(1.5 mm)	700 °C	IEC 60695-2-12
(3.0 mm)	700 °C	IEC 60695-2-12
Glow Wire Ignition Temperature		
(1.5 mm)	725 °C	IEC 60695-2-13
(3.0 mm)	725 °C	IEC 60695-2-13
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	280 to 300	°C
Mold Temperature	60 to 120	°C