Technical Data Sheet

Schulamid 6 GF50 K1906 U BLK968148

Polyamide 6

Product Description

50% glassfiber reinforced PA, improved surface, UV stabilized

Processing Method	Injection Molding
Attribute	High Stiffness; High Tensile Strength
Filler/Reinforcement	Glass Fiber, 50%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.61	g/cm³	ISO 1183
Viscosity Number	130	cm³/g	ISO 307
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	1.5	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	2.6	%	ISO 527-2
Tensile Stress at Break			
(Type 1A, 5 mm/min)	170	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	92.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	16500	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	10800	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	6.5	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	8.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	55	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	47	kJ/m²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	216	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	201	°C	ISO 75-2/A
Flammable			
Burning Rate	<100	mm/min	ISO 3795
Additional Information			
Water Absorption 23C/50RH	1.3	%	ISO 62

Injection Parameters	Nominal Value	Units
Drying Time, (Desiccant Dryer)	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