

Technical Data Sheet

Schulamid XT200 GF35 LW BLK968069



Polyamide 66

Product Description

35% glass fiber reinforced Polyamide 66 for high temperature applications

Processing Method Injection Molding

Filler/Reinforcement Glass Fiber, 35%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density			
(Method A)	1.42	g/cm ³	ISO 1183
(Method A) - Conditioned	1.42	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	3.0	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	7.8	%	ISO 527-2
Flexural Modulus	12700	MPa	ISO 178
Tensile Stress at Break			
(Type 1A, 5 mm/min)	210	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	140	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	15000	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	8000	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.6%)	350	MPa	ISO 178
(2.0 mm/min, 3.5%)	350	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	13	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	18	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch C)	10	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	90	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	70	kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	237	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	212	°C	ISO 75-2/A

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	270 to 290	°C
Mold Temperature	80 to 120	°C