Technical Data Sheet

Schulamid XT180 GBF3015 GRY967953

Polyamide 66

Product Description

30% glass fibre and glass bead reinforced PA 66 for high temperature applications

Processing Method	Injection Molding
Filler/Reinforcement	Glass Bead\Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.37	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break			
(Type 1A, 5 mm/min)	2.1	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	5.2	%	ISO 527-2
Flexural Modulus	7600	MPa	ISO 178
Tensile Stress at Break			
(Type 1A, 5 mm/min)	121	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	82.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	7150	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	5000	MPa	ISO 527-1
Flexural Stress	200	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	5.0	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch C)	3.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	28	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	26	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	43	kJ/m²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	>250	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	240	°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
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	80 to 120	°C