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Technical Data Sheet

Schulamid 6 GF 15 NAT

Polyamide 6

Product Description
15% glass fibre reinforced Polyamide 6

Processing Method	Injection Molding
Attribute	Good Flow; Good Surface Finish; 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/cm³	ISO 1183
Viscosity Number	145	cm³/g	ISO 307
Mechanical			
Flexural Strain at Flexural Strength	6.5	%	ISO 178
Tensile Strain at Break			
(Type 1A, 5 mm/min)	3.5	%	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	15	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	4300	MPa	ISO 178
Tensile Stress at Break			
(Type 1A, 5 mm/min)	130	MPa	ISO 527-2
(Type 1A, 5 mm/min) - Conditioned	70.0	MPa	ISO 527-2
Tensile Modulus			
(1 mm/min, Type 1A)	5800	MPa	ISO 527-1
(1 mm/min, Type 1A) - Conditioned	3000	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min)	170	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	15	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	45	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	40	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	No Break		ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	174	MPa	ISO 2039-1

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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
Flammable			
Burning Rate			
(2.00 mm)	43	mm/min	FMVSS 302
(2.00 mm)	43	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
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