Technical Data Sheet

Schulamid 6 GF30 H2 FR2 ORE962586

Polyamide 6

Product Description

30% glass fibre reinforced flame-retardant Polyamide 6 grade; halogen free, electrically neutral heat stabilized

Processing Method	Injection Molding
Attribute	Electrical Corrosion Resistant; Halogen Free; Heat Stabilized; PFAS free
Additive	Flame Retardant
Filler/Reinforcement	Glass Fiber, 30%
Resin ID	PA6 GF30 FR(40)

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density, (Method A)	1.43	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break	2.6	%	ISO 527-2
- Conditioned	5	%	ISO 527-2
Tensile Modulus	12000	MPa	ISO 527-1
- Conditioned	7700	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4.8	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise, Notch A) - Conditioned	14	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	30	kJ/m²	ISO 179
(23 °C, Type 1, Edgewise) - Conditioned	76	kJ/m²	ISO 179
Hardness			
Ball Pressure Test, (200 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature			
(B (50N))	212	°C	ISO 306
(B (50N))	203	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	215	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	204	°C	ISO 75-2/A
Electrical			
Comparative Tracking Index (CTI)	600	V	IEC 60112
Flammable			

Burning Rate			
(0.750 mm, Self-Extinguishing)	0.0	mm/min	ISO 3795
(1.50 mm, Self-Extinguishing)	0.0	mm/min	ISO 3795
(3.00 mm, Self-Extinguishing)	0.0	mm/min	ISO 3795
Glow Wire Flammability Index			
(0.75 mm)	960	°C	IEC 60695-2-12
(1.5 mm)	960	°C	IEC 60695-2-12
(3.0 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(0.75 mm)	775	°C	IEC 60695-2-13
(1.5 mm)	775	°C	IEC 60695-2-13
UL Information			
Flammability Classification			
(0.75 mm)	V-0		IEC 60695-11-10, -20
(1.5 mm)	V-0		IEC 60695-11-10, -20
(3.0 mm)	V-0		IEC 60695-11-10, -20

Injection Parameters	Nominal Value	Units
Drying Time	4.0 to 6.0	hr
Drying Temperature	80	°C
Suggested Max Moisture	0.040 to 0.10	%
Screw Speed	<250	mm/sec
Processing (Melt) Temp	240 to 260	°C
Injection Rate	Slow-Moderate	
Back Pressure	20 to 80	bar
Mold Temperature	60 to 90	°C