Technical Data Sheet

POLYMAN® FSAN GF 35 K2405

Styrene Acrylonitrile
Engineering Plastics

Product Description
35% glass fibre reinforced SAN grade for parts with high mechanical strength and high dimensional stability

General			
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight		
Features	• Good Dimensional Stability	• High Stiffness	• High Strength
Uses	• Machine/Mechanical Parts	• Windows & Doors	
Processing Method	• Extrusion	• Injection Molding	
Resin ID (ISO 1043)	• SAN-GF		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.37 g/cm³	1.37 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR)			ISO 1133
220°C/10.0 kg	7.00 cm³/10min	7.00 cm³/10min	
230°C/3.8 kg	3.00 cm³/10min	3.00 cm³/10min	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	1.74E+6 psi	12000 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	14500 psi	100 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.3 %	1.3 %	ISO 527-2/1A/5
Flexural Modulus [1]	1.74E+6 psi	12000 MPa	ISO 178
Flexural Stress [1] (1.7% Strain)	22500 psi	155 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	1.9 ft·lb/in²	4.0 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	9.5 ft·lb/in²	20 kJ/m²	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/Af
264 psi (1.8 MPa), Unannealed	207 °F	97.0 °C	
Vicat Softening Temperature	216 °F	102 °C	ISO 306/B50
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Burning Rate			
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302

Additional Information
1.) Not for use in food contact applications
2.) Not for use in medical or pharmaceutical applications

Notes

[1] 0.079 in/min (2.0 mm/min)

Notes

These are typical property values not to be construed as specification limits.