

Technical Data Sheet

Polyman FSAN 35 GF NAT



Styrene Acrylonitrile

Product Description

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

Processing Method	Injection Molding
Attribute	Good Dimensional Stability; High Strength
Filler/Reinforcement	Glass Fiber, 35%
Resin ID	SAN-GF

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	5.0	cm ³ /10 min	ISO 1133
Density, (Method A)	1.35	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	1.0	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	96.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	12500	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	3.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	15	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	9.0	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	77.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	105	°C	ISO 306
(A (10N), 50 °C/h)	112	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	101	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	98.0	°C	ISO 75-2/A