Technical Data Sheet

Ronfalin SAN 4501 GF35 BLK73185

Styrene Acrylonitrile

Product Description

35% glass fiber reinforced SAN compound. (Former name: POLYMAN FSAN 35 GF)

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	cm³/10 min	ISO 1133
Density, (Method A)	1.35	g/cm³	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/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	3.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	15	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	9.0	kJ/m²	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
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	600	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093

Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	240 to 270	°C
Mold Temperature	40 to 80	°C