

Technical Data Sheet

Ronfalin SAN 4501 GF35

Styrene Acrylonitrile
LyondellBasell Industries
Engineering Plastics

Product Description

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

General

Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Features	• Good Dimensional Stability • High Strength
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• SAN-GF

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Density	1.35 g/cm ³	1.35 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 Kg)	5.0 cm ³ /10min	5.0 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Tensile Modulus	1.81E+6 psi	12500 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	13900 psi	96.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.0 %	1.0 %	ISO 527-2/1A/5

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
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Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	1.4 ft·lb/in ²	3.0 kJ/m ²	
73°F (23°C)	1.9 ft·lb/in ²	4.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	4.3 ft·lb/in ²	9.0 kJ/m ²	
73°F (23°C)	7.1 ft·lb/in ²	15 kJ/m ²	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
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Ball Indentation Hardness (H 358/30)	11200 psi	77.0 MPa	ISO 2039-1
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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
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Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	214 °F	101 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	208 °F	98.0 °C	ISO 75-2/af
Vicat Softening Temperature			
--	221 °F	105 °C	ISO 306/B50
--	234 °F	112 °C	ISO 306/A50

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Comparative Tracking Index	600 V	600 V	IEC 60112

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
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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
Flammability Classification			IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	HB	
0.12 In (3.0 Mm)	HB	HB	

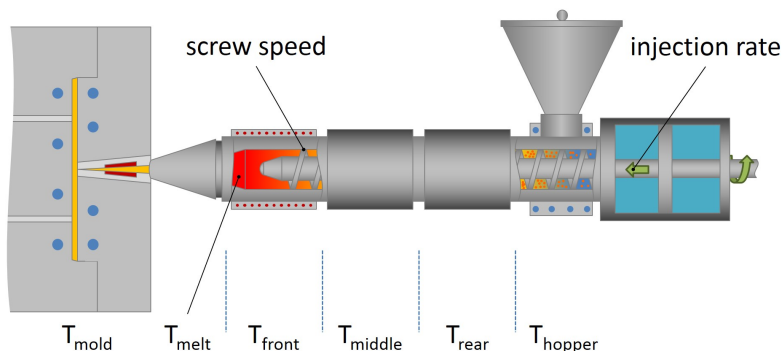
Additional Information

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

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	464 to 518 °F	240 to 270 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

Notes

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