

Technical Data Sheet

RONFALIN[®] SAN 4402 GF35 U

Styrene Acrylonitrile
Engineering Plastics

Product Description

35% glass fibre reinforced SAN for high strength and dimensional stability, with UV-stabilization. (Former name: POLYMAN FSAN 35 GF UV ST)

General

Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Additive	• UV Stabilizer
Features	• Good Dimensional Stability • High Strength
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >SAN-GF<

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Density	1.33 g/cm ³	1.33 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	11 cm ³ /10min	11 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Tensile Modulus	1.60E+6 psi	11000 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	14500 psi	100 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.7 %	1.7 %	ISO 527-2/1A/5

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
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Charpy Notched Impact Strength (73°F (23°C))	1.9 ft·lb/in ²	4.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	9.5 ft·lb/in ²	20 kJ/m ²	ISO 179/1eU

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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Vicat Softening Temperature			
--	234 °F	112 °C	ISO 306/A50
--	217 °F	103 °C	ISO 306/B50

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.