

Technical Data Sheet

Ronfalin SAN 4701 GF35

Styrene Acrylonitrile
LyondellBasell Industries
Engineering Plastics

Product Description
35% glass fiber reinforced, High Heat resistant SAN compound

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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
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
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)	2.4 ft·lb/in ²	5.0 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
Ball Indentation Hardness (H 358/30)	11200 psi	77.0 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2/Af
264 Psi (1.8 Mpa), Unannealed	235 °F	113 °C	
Vicat Softening Temperature	248 °F	120 °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

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	158 °F	70 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	446 to 500 °F	230 to 260 °C
Mold Temperature	104 to 158 °F	40 to 70 °C

Notes

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