

Technical Data Sheet

RONFALIN[®] SAN 4404 FC

Styrene Acrylonitrile
Engineering Plastics

Product Description

Good flow SAN grade with high chemical resistance. (Former name: POLYMAN SAN 29/10)

General

Features	<ul style="list-style-type: none"> • Chemical Resistant • Good Flow
Processing Method	<ul style="list-style-type: none"> • Injection Molding
Resin ID (ISO 1043)	<ul style="list-style-type: none"> • SAN

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.08 g/cm ³	1.08 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	10 cm ³ /10min	10 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	537000 psi	3700 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	10200 psi	70.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527-2/1A/5
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.4 ft·lb/in ²	3.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	8.1 ft·lb/in ²	17 kJ/m ²	ISO 179/1eU
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	24800 psi	171 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	217 °F	103 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	212 °F	100 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	223 °F	106 °C	ISO 306/A50
--	216 °F	102 °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

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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
Suggested Max Regrind	30 %	30 %
Processing (Melt) Temp	428 to 482 °F	220 to 250 °C
Mold Temperature	122 to 176 °F	50 to 80 °C

Notes

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