

Technical Data Sheet

Polyman (SAN) 29/10

Styrene Acrylonitrile
LyondellBasell Industries
Engineering Plastics

Product Description

Good flow SAN grade with high chemical resistance

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 527-1/1A/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
Deflection Temperature Under Load			
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			
--	216 °F	102 °C	ISO 306/B50
--	223 °F	106 °C	ISO 306/A50

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Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	356 to 392 °F	180 to 200 °C
Middle Temperature	410 to 446 °F	210 to 230 °C
Front Temperature	464 to 482 °F	240 to 250 °C
Nozzle Temperature	464 to 500 °F	240 to 260 °C
Processing (Melt) Temp	428 to 482 °F	220 to 250 °C
Mold Temperature	122 to 176 °F	50 to 80 °C
Injection Pressure	14500 to 21800 psi	100 to 150 MPa
Injection Rate	Moderate-Fast	Moderate-Fast
Holding Pressure	4350 to 13100 psi	30.0 to 90.0 MPa
Back Pressure	725 to 2180 psi	5.00 to 15.0 MPa
Screw Speed	< 2.0 ft/sec	< 36 m/min

Notes

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