

Technical Data Sheet

**Polyman (SAN) 29/10**

Styrene Acrylonitrile
LyondellBasell Industries
Engineering Plastics

Product Description

Good flow SAN grade with high chemical resistance

General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America
Features	• Chemical Resistant	• Good Flow
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• 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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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