

Technical Data Sheet

Polyman SAN 29/10 (DB) GRC



Styrene Acrylonitrile

Product Description

Good flow SAN grade with high chemical resistance

Regulatory Status

For regulatory compliance information, see *Polyman* SAN 29/10 (DB) GRC [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America
Processing Method	Injection Molding
Attribute	Good Chemical Resistance; Good Flow
Resin ID	SAN

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/3.8 kg)	10	cm ³ /10 min	ISO 1133
Density, (Method A)	1.08	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.0	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	70.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3700	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	3.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	17	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	171	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	102	°C	ISO 306
(A (10N), 50 °C/h)	106	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	103	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	100	°C	ISO 75-2/A



Injection Parameters	Nominal Value	Units
Nozzle Temperature	240 to 260	°C
Screw Speed	<600	mm/sec
Processing (Melt) Temp	220 to 250	°C
Front Temperature	240 to 250	°C
Holding Pressure	30.0 to 90.0	MPa
Middle Temperature	210 to 230	°C
Rear Temperature	180 to 200	°C
Injection Rate	Moderate-Fast	
Back Pressure	5.00 to 15.0	MPa
Mold Temperature	50 to 80	°C
Injection Pressure	100 to 150	MPa

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.

Company Information

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

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