

Technical Data Sheet

Diamond SAN 300 PELLETNAT



Styrene Acrylonitrile

Product Description

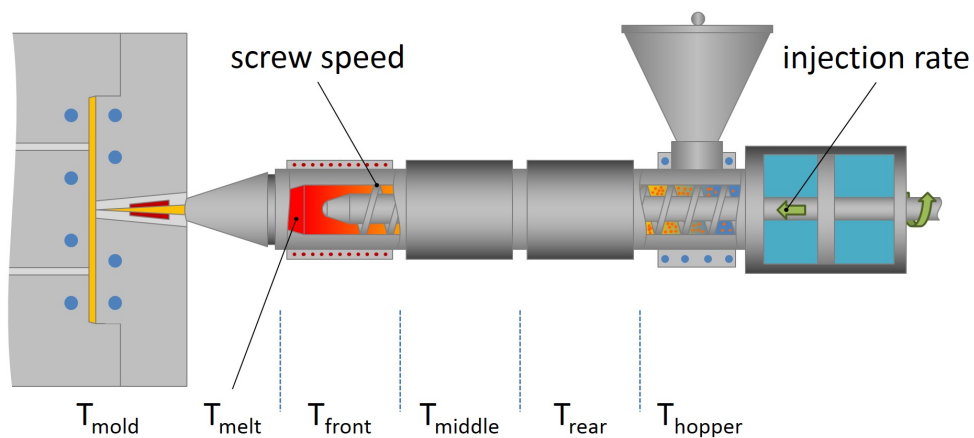
Diamond SAN 300 PELLETNAT is a Styrene Acrylonitrile material and is typically used in Injection Molding applications.

Regulatory Status

For regulatory compliance information, see SAN 300 PELLETNAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Processing Method	Injection Molding
Appearance	Natural Color

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(200 °C/5.0 kg, Procedure A)	8.0	g/10 min	ASTM D1238
(230 °C/3.8 kg, Procedure A)	31	g/10 min	ASTM D1238
Density - Specific Gravity	1.07	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield, (51 mm/min)	59.3	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Tangent)	3170	MPa	ASTM D790
Impact			
Notched Izod Impact, (23 °C, 3.18 mm)	21	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	123		ASTM D785
Thermal			
Vicat Softening Temperature, (Loading 1 (10 N))	100	°C	ASTM D1525
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	96.7	°C	ASTM D648



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	71 to 82	°C
Clamp Tonnage	2.8 to 4.1	kN/cm ²
Nozzle Temperature	193 to 232	°C
Processing (Melt) Temp	193 to 216	°C
Front Temperature	193 to 232	°C
Suggested Shot Size	40 to 75	%
Middle Temperature	182 to 221	°C
Rear Temperature	160 to 182	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.517 to 1.03	MPa
Mold Temperature	27 to 77	°C
Injection Pressure	0.414 to 7.58	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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