

Ineos ABS Lustran® SAN DN59 SAN, Soft-Flow Grade

Category : Polymer , Thermoplastic , SAN Polymer , Styrene Acrylonitrile (SAN), Transparent

Material Notes:

Lustran® SAN DN59 resin is a soft-flow grade of transparent SAN (styrene acrylonitrile) thermoplastic. It has been designed for use in compounding and thin-wall injection molded applications. Lustran® SAN DN59 has a large molding window and is easy to process. It is available only in natural (000000) color.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-SAN-DN59-SAN-Soft-Flow-Grade.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM-D792
Linear Mold Shrinkage	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM-D955
Melt Flow	25 g/10 min @Load 3.80 kg, Temperature 230 °C	25 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	ISO 527
Tensile Modulus	4.71 GPa	683 ksi	ISO 527
Flexural Yield Strength	91.0 MPa	13200 psi	ISO 178
Flexural Modulus	3.76 GPa	545 ksi	ISO 178
Izod Impact, Notched (ISO)	1.47 kJ/m ²	0.699 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Vicat Softening Point	99.5 °C @Load 5.00 kg	211 °F @Load 11.0 lb	Method B, 50°C/hour; ISO 306
	101.8 °C @Load 5.00 kg	215.2 °F @Load 11.0 lb	Method B, 120°C/hour; ISO 306
	105.9 °C @Load 5.00 kg	222.6 °F @Load 11.0 lb	Method A, 120°C/hour; ISO 306

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	170 - 185 Â°C	338 - 365 Â°F	Injection Molding
Middle Barrel Temperature	185 - 200 Â°C	365 - 392 Â°F	Injection Molding
Front Barrel Temperature	200 - 215 Â°C	392 - 419 Â°F	Injection Molding
Nozzle Temperature	200 - 215 Â°C	392 - 419 Â°F	Injection Molding
Melt Temperature	220 - 260 Â°C	428 - 500 Â°F	Injection Molding
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	Injection Molding
Drying Temperature	71.0 - 77.0 Â°C	160 - 171 Â°F	
	@Time 14400 sec	@Time 4.00 hour	
	82.0 - 88.0 Â°C	180 - 190 Â°F	
	@Time 7200 sec	@Time 2.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	
Dew Point	<= -29.0 Â°C	<= -20.2 Â°F	inlet air
Injection Pressure	68.9 - 138 MPa	10000 - 20000 psi	Injection Molding
Back Pressure	0.000 - 0.172 MPa	0.000 - 25.0 psi	Injection Molding
Clamp Pressure	30.8 - 61.6 MPa	4470 - 8930 psi	Injection Molding
Cushion	<= 0.317 cm	<= 0.125 in	Injection Molding

Descriptive Properties	Value	Comments
Acrylonitrile Content (%)	29.5	
Hold Pressure	40-80% of Injection Pressure, Injection Molding	
Injection Speed	Moderate to High	Injection Molding
Screw Compression Ratio	2.5:1	Injection Molding
Screw Length-to-Diameter Ratio	>= 20:1	Injection Molding
Screw Speed	Moderate, Injection Molding	
Shot Weight-to-Machine Capacity Ratio	0.5-0.7	Injection Molding

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