

LUSTRAN SAN 31

Styrene Acrylonitrile (SAN)

TECHNICAL DATASHEET

DESCRIPTION

Lustran® SAN 31 is a transparent styrene acrylonitrile (SAN) with high flow and toughness.

FEATURES

- Good chemical and heat resistance
- Meets USP Class VI requirements
- Meets FDA modified ISO 10993-1 requirements
- UL classification 94 HB

APPLICATIONS

- Dinnerware
- Medical devices
- Comestic packaging
- Tumblers, mugs and jars
- Lens

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 230 °C/3.8 kg	ASTM D 1238	g/10 min	7.5
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	22
Melt Volume Rate, 220 °C/10 kg	ISO 1133	cm³/10 min	24
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	0.4
Izod Unnotched Impact Strength, 23 °C	ASTM D 256	ft-lb/in	3.8
Tensile Stress at Break, 23 °C	ASTM D 638	psi	10500
Tensile Modulus	ASTM D 638	psi x 10³	475
Flexural Strength, 23 °C	ASTM D 790		16700
Flexural Modulus, 23 °C	ASTM D 790	psi x 10³	500
Hardness, Rockwell	ASTM D 785	M scale	83
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m²	1.5
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°F	230
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	205
DTUL @ 264 psi - Annealed	ASTM D 648	°F	218

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Coefficient of Linear Thermal Expansion	ASTM D 696	10 ⁻⁴ /°F	0.38
Optical Properties			
Refractive Index, Sodium D Line	ASTM D 542	-	1.57
Light Transmission at 550 nm	ASTM D 1003	%	86 - 88
Haze	ASTM D 1003	%	0.7
Other Properties			
Density (ASTM)	ASTM D 792	g/cm ³	1.08
Processing			
Melt Temperature Range	-	°F	425 - 500
Mold Temperature Range	-	°F	100 - 180
Drying Temperature	-	°F	180 - 190

Typical values for uncolored products

Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities.

Please consult our local sales or technical representatives for details.

SUPPLY FORM

Lustran SAN resins are available in bulk railcar, bulk truckload and 726kg box quantities.

REGULATORY COMPLIANCE

Please refer to Styrolution web site or contact Styrolution Technical Service for further information.

FOOD CONTACT COMPLIANCE STATEMENT

The base resin used in the Lustran SAN 31 product is in chemical compliance with 21 CFR 181.32 (acrylonitrile copolymers and resins) for use in the manufacture of repeated usehouseware articles.

PRODUCT SAFETY

Please refer to Styrolution product SDS or contact Styrolution Technical Service for further information.

DISCLAIMER

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The above mentioned data are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual product specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability. INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.