

LUSTRAN SAN SPARKLE

Styrene Acrylonitrile (SAN)

TECHNICAL
DATASHEET

DESCRIPTION

Lustran® SAN Sparkle is a transparent styrene acrylonitrile (SAN) with high flow and toughness and glass-like clarity

FEATURES

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

APPLICATIONS

- Medical devices
- Cosmetic packaging
- Housewares
- Personal care

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ASTM D 1238	cm ³ /10 min	35
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
Tensile Stress at Break, 23 °C	ASTM D 638	psi	9000
Tensile Modulus	ASTM D 638	psi x 10 ³	470
Flexural Strength, 23 °C	ASTM D 790		14000
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	500
Hardness, Rockwell	ASTM D 785	M scale	75
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m ²	1.5
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°F	226
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	200
DTUL @ 264 psi - Annealed	ASTM D 648	°F	216
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

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Property, Test Condition	Standard	Unit	Values
Light Transmission at 550 nm	ASTM D 1003	%	88 - 90
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.