

Technical Datasheet

DESCRIPTION

Lustran® SAN 29 is a transparent styrene acrylonitrile (SAN) polymer with medium flow and high toughness.

FEATURES

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

APPLICATIONS

- Tumblers
- Pitchers
- Blender jars
- Water filter housings
- Battery Cases

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 230 °C/3.8 kg	ASTM D 1238	g/10 min	5
Mechanical Properties			
Izod Notched Impact Strength, 23°C (73°F)	ASTM D 256	ft-lb/in	0.4
Izod Unnotched Impact Strength	ASTM D 256	ft-lb/in	4.7
Tensile Stress at Break, 23° C	ASTM D 638	psi	10,800
Tensile Modulus	ASTM D 638	psi x 10 ³	-
Flexural Strength	ASTM D 790	psi	18,900
Flexural Modulus	ASTM D 790	psi x 10 ³	500
Hardness, Rockwell	ASTM D 785	M scale	83
Thermal Properties			
Vicat Softening Temperature, B/1 (120°C/h, 10N)	ASTM D 1525	°F	232
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	205
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	%	87 - 88
Haze	ASTM D 1003	%	0.8

Property, Test Condition	Standard	Unit	Values
Other Properties			
Density	ASTM D 792	-	1.08
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0.003 to 0.004
Melt Temperature Range		°F	425 - 500
Mold Temperature Range		°F	100 - 180
Drying Temperature		°F	180 -190
Drying Time		h	2 hours

Typical values for uncolored products

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 29 product is in chemical compliance with 21 CFR 181.32 (acrylonitrile copolymers and resins) for use in the manufacture of repeated use houseware articles.

PRODUCT SAFETY

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

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