

Lustran 349

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Lustran® 349 is a high-gloss, medium-impact injection molding resin that has been specially formulated for excellent surface lubricity using internal additives.

FEATURES

- Healthcare certifications
- High gloss
- Medium impact
- Excellent surface lubricity
- UL 94 HB rated

APPLICATIONS

- Components of intravenous (IV) systems
- Surgical instruments
- Diagnostic test kits

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 230 °C/3.8 kg	ASTM D 1238	g/10 min	6
Mechanical Properties			
Izod Notched Impact Strength, 23°C (73°F)	ASTM D 256	ft-lb/in	5.0
Tensile Stress at Yield, 23° C	ASTM D 638	psi	6,100
Tensile Modulus	ASTM D 638	psi x 10 ³	380
Flexural Strength	ASTM D 790	psi	10,500
Flexural Modulus	ASTM D 790	psi x 10 ³	390
Hardness, Rockwell	ASTM D 785	R scale	110
Thermal Properties			
Vicat Softening Temperature, B/1 (120°C/h, 10N)	ASTM D 1525	°F	220
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	190
Coefficient of Linear Thermal Expansion	ASTM D 696	10 ⁻⁴ /°F	0.45
Other Properties			
Density	ASTM D 792	-	1.05
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 to 0.006

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Property, Test Condition	Standard	Unit	Values
Melt Temperature Range		°F	425 - 500
Mold Temperature Range		°F	85 - 140
Drying Temperature		°F	175
Drying Time		h	2-4

Typical values for uncolored products

SUPPLY FORM

Lustran ABS (Acrylonitrile Butadiene Styrene) 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.

PRODUCT SAFETY

Safety Data Sheets and product labels provide information concerning the health and safety precautions that must be observed when handling the Styrolution products mentioned in this publication. No adverse effects on the health of processing personnel have been observed if the products are correctly processed and the production areas are suitably ventilated. For styrene, acrylonitrile, alpha-methyl styrene, maleic anhydride and 1, 3-butadiene, the maximum allowable workplace concentrations must be observed according to current local and federal regulations. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. This information is available in safety data sheets and on product labels. If there are questions or concerns, consult your Styrolution representative or contact the Product Safety and Regulatory Affairs Department at Styrolution.

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