

# Lustran 348

Acrylonitrile Butadiene Styrene (ABS)

## TECHNICAL DATASHEET

### DESCRIPTION

Lustran® 348 resin is an injection molding grade of ABS (Acrylonitrile butadiene styrene) with medium-impact and high-gloss.

### FEATURES

- Healthcare certifications
- High gloss
- Medium impact
- Meets FDA modified ISO 10993-1 requirements
- Meets U.S. Pharmacopeia 23 Class VI test requirements

### APPLICATIONS

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

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Flow Rate, 230 °C/3.8 kg	ASTM D 1238	g/10 min	5
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	14
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23°C (73°F)	ASTM D 256	ft-lb/in	4.0
Tensile Stress at Yield, 23° C	ASTM D 638	psi	7,000
Tensile Modulus	ASTM D 638	psi x 10 <sup>3</sup>	380
Flexural Strength	ASTM D 790	psi	11,000
Flexural Modulus	ASTM D 790	psi x 10 <sup>3</sup>	390
Hardness, Rockwell	ASTM D 785	R scale	112
<b>Thermal Properties</b>			
Vicat Softening Temperature, B/1 ( 120°C/h, 10N)	ASTM D 1525	°F	225
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	186
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	199
DTUL @ 264 psi - Annealed	ASTM D 648	°F	204
DTUL @ 66 psi - Annealed	ASTM D 648	°F	212
Coefficient of Linear Thermal Expansion	ASTM D 696	10 <sup>-4</sup> /°F	0.45

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Property, Test Condition	Standard	Unit	Values
<b>Other Properties</b>			
Density	ASTM D 792	-	1.06
<b>Processing</b>			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 to 0.006
Melt Temperature Range		°F	475 - 525
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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