

# Lustran 308 NR

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL  
DATASHEET

## DESCRIPTION

Lustran® 308 resin is a low gloss, easy-flowing grade of ABS (acrylonitrile butadiene styrene).

## FEATURES

- Healthcare certifications
- Low gloss
- Easy flow
- balance of rigidity, impact strength and abuse resistance

## 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	7
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	21
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	3.2
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	5250
Tensile Modulus	ASTM D 638	psi x 10 <sup>3</sup>	320
Flexural Strength, 23 °C	ASTM D 790		10500
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 <sup>3</sup>	355
Hardness, Rockwell	ASTM D 785	R scale	105
<b>Thermal Properties</b>			
Vicat Softening Temperature, B/1 ( 120 °C/h, 10N)	ASTM D 1525	°F	223
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	168
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	192
DTUL @ 264 psi - Annealed	ASTM D 648	°F	203
DTUL @ 66 psi - Annealed	ASTM D 648	°F	212
Coefficient of Linear Thermal Expansion	ASTM D 696	10 <sup>-4</sup> /°F	0.5
<b>Other Properties</b>			

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Property, Test Condition	Standard	Unit	Values
Density	ASTM D 792	lb/in <sup>3</sup>	1.06
<b>Processing</b>			
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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