

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
Rheological Properties			
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
Mechanical Properties			
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 ³	320
Flexural Strength, 23 °C	ASTM D 790		10500
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	355
Hardness, Rockwell	ASTM D 785	R scale	105
Thermal Properties			
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 ⁻⁴ /°F	0.5
Other Properties			

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Property, Test Condition	Standard	Unit	Values
Density	ASTM D 792	lb/in ³	1.06
Processing			
Melt Temperature Range	-	°F	425 - 500
Mold Temperature Range	-	°F	85 - 140
Drying Temperature	-	°F	175
Drying Time	-	h	2 - 4