

Lustran 348

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Addyson, Ohio, United States, produced Lustran® 348 resin is an injection molding grade of ABS (Acrylonitrile butadiene styrene) with medium impact strength and good tensile properties. It is especially suitable for medical applications.

FEATURES

- Healthcare certifications
- High gloss
- Medium impact
- Meets FDA modified ISO 10993-1 requirements
- Meets U.S. Pharmacopeia 23 Class VI test requirements
- UL Classification 94HB

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	5
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	14
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	4
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	7000
Tensile Modulus	ASTM D 638	psi x 10 ³	380
Flexural Strength, 23 °C	ASTM D 790		11000
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	390
Hardness, Rockwell	ASTM D 785	R scale	112
Thermal Properties			
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

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Property, Test Condition	Standard	Unit	Values
DTUL @ 66 psi - Annealed	ASTM D 648	°F	212
Coefficient of Linear Thermal Expansion	ASTM D 696	10 ⁻⁴ /°F	0.45
Other Properties			
Density (ASTM)	ASTM D 792	g/cm ³	1.05
Processing			
Melt Temperature Range	-	°F	425 - 500
Mold Temperature Range	-	°F	85 - 140
Drying Temperature	-	°F	175
Drying Time	-	h	2 - 4
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 - 0.006