



# Lustran® 348

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

## Physical Properties

MEASUREMENT	CONDITION	Value
Density / Specific Gravity	ASTM D792	1.06
Melt Mass-Flow Rate (MFR) 220°C/10.0 kg 230°C/3.8 kg	ASTM D1238	14g/10 min 5.0g/10 min

## Hardness Properties

MEASUREMENT	CONDITION	Value
Rockwell Hardness (R-Scale)	ASTM D785	112

## Mechanical Properties

MEASUREMENT	CONDITION	Value
Tensile Modulus	ASTM D638	380000 psi
Tensile Strength (Yield, 73°F)	ASTM D638	7000 psi
Flexural Modulus (73°F)	ASTM D790	390000 psi
Flexural Strength (73°F)	ASTM D790	11000 psi

## Impact Properties

MEASUREMENT	CONDITION	Value
Charpy Notched Impact Strength (73°F)	ISO 179	7.1ft·lb/in²
Notched Izod Impact (73°F)	ASTM D256	4.0ft·lb/in

## 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

## Processing Method

- Injection Molding

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## Thermal Properties

MEASUREMENT	CONDITION	Value
Deflection Temperature Under Load		
66 psi, Unannealed	ASTM D648	199°F
66 psi, Annealed		212°F
264 psi, Unannealed		186°F
264 psi, Annealed		204°F
Vicat Softening Temperature	ASTM D1525 <sup>3</sup>	437°F
CLTE - Flow	ASTM D696	4.5E-5 in/in/°F

## Injection Properties

MEASUREMENT	Value
Drying Temperature	175°F
Drying Time	2.0 to 4.0 hr
Processing (Melt) Temp	475 to 525°F
Mold Temperature	85 to 140°F

### Notes

<sup>3</sup>Rate B (120°C/h), Loading 1 (10 N)

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**North America**  
+1 931 766 7290

**United Kingdom**  
+44 (0) 1494 479 690

**Germany**  
+49 (0) 6073 689 6000

**France**  
+33 (0) 2 43 51 20 30

**Italy**  
+39 0121 390310

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