

Lustran 448

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Lustran® 448 resin is a high-gloss, high-impact injection molding grade of ABS (acrylonitrile butadiene styrene). In addition to a good balance of physical properties, it provides heat stability and very good moldability.

FEATURES

- High impact strength
- High gloss
- Good balance of physical properties
- UL 94 HB rated
- Listed under NSF 51

APPLICATIONS

- Home appliances for floor care housings
- Vacuum cleaner housings
- Kitchen electrical appliance housings
- Lawn and garden equipment
- Power tool housings

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 230 °C/3.8 kg	ASTM D 1238	g/10 min	4.5
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	12
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	6.2
Izod Notched Impact Strength, -40 °C (-40 °F)	ASTM D 256	ft-lb/in	1.2
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	6100
Tensile Modulus	ASTM D 638	psi x 10 ³	370
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	380
Flexural Stress at 5% Deflection	ASTM D 790	psi	10500
Hardness, Rockwell	ASTM D 785	R scale	109
Thermal Properties			
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	178
Coefficient of Linear Thermal Expansion	ASTM D 696	10 ⁻⁴ /°F	0.5
Other Properties			
Density	ASTM D 792	lb/in ³	1.05
Processing			

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Property, Test Condition	Standard	Unit	Values
Linear Mold Shrinkage	ASTM D 955	in/in	0 - 0.01
Drying Temperature	-	°F	175
Drying Time	-	h	2 - 4