

Lustran 248

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Lustran® 248 resin is a high-gloss, medium-impact grade of ABS (Acrylonitrile Butadiene Styrene). This general-purpose injection molding grade offers a good balance of physical properties.

FEATURES

- High gloss
- Good rigidity
- Medium impact strength
- UL94 HB rated

APPLICATIONS

- Toys
- Small appliances

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	13
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	4.2
Izod Notched Impact Strength, -40 °C (-40 °F)	ASTM D 256	ft-lb/in	0.9
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	6800
Tensile Modulus	ASTM D 638	psi x 10 ³	380
Flexural Strength, 23 °C	ASTM D 790		10700
Flexural Strength	ASTM D 790	kg/cm ²	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	187
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	200
DTUL @ 264 psi - Annealed	ASTM D 648	°F	204
DTUL @ 66 psi - Annealed	ASTM D 648	°F	212
Coefficient of Linear Thermal Expansion	ASTM D 696	10 ⁻⁴ /°F	0.45

Lustran 248

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

Property, Test Condition	Standard	Unit	Values
Other Properties			
Density	ASTM D 792	lb/in ³	1.06
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 - 0.006
Drying Temperature	-	°F	175
Drying Time	-	h	2 - 4