



Lustran® 248

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information

Product 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

General

Material Status	• Commercial: Active
Availability	• Latin America • North America
Features	• General Purpose • Medium Impact Resistance • High Gloss • Medium Rigidity
Uses	• Appliances • Toys
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.06		ASTM D792
Melt Mass-Flow Rate			ASTM D1238
220°C/10.0 kg	13	g/10 min	
230°C/3.8 kg	5.0	g/10 min	
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	380000	psi	ASTM D638
Tensile Strength (Yield, 73°F)	6800	psi	ASTM D638
Flexural Strength			ASTM D790
--	5550	psi	
73°F	10700	psi	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F	0.90	ft-lb/in	
73°F	4.2	ft-lb/in	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	200	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Annealed)	212	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	187	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Annealed)	204	°F	ASTM D648
Vicat Softening Temperature	225	°F	ASTM D1525 ²
CLTE - Flow	4.5E-5	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	2.0 to 4.0	hr

Notes

¹ Typical properties: these are not to be construed as specifications.

² Rate B (120°C/h), Loading 1 (10 N)