Lustran® 349

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information

Product Description

Lustran® 349 is a high-gloss, medium-impact injection molding resin that has been specially formulated for excellent surface lubricity using internal additives.

FEATURES

- Healthcare certifications
- High gloss
- Medium impact
- Excellent surface lubricity
- UL 94 HB rated

APPLICATIONS

- Components of intravenous (IV)systems
- Surgical instruments
- Diagnostic test kits

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Unspecified Additive		
Features	• High Gloss	• Medium Impact Resistance	
Uses	• Medical/Healthcare Applications	• Surgical Instruments	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05		ASTM D792
Melt Mass-Flow Rate (230°C/3.8 kg)	6.0	g/10 min	ASTM D1238
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)	6100	psi	ASTM D638
Flexural Modulus (73°F)	390000	psi	ASTM D790
Flexural Strength (73°F)	10500	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	5.0	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	110		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	190	°F	
Vicat Softening Temperature	220	°F	ASTM D1525 [2]
CLTE - Flow	4.5E-5	in/in/°F	ASTM D696

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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
Processing (Melt) Temp	425 to 500	°F
Mold Temperature	85 to 140	°F

Notes

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

[2] Rate B (120°C/h), Loading 1 (10 N)