Lustran® 633

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information

Product Description

Lustran® 633 is a general-purpose injection molding grade of ABS (Acrylonitrile Butadiene Styrene). It offers a good balance of physical properties, high gloss, and good moldability.

FEATURES

- Good moldability
- High gloss
- High impact strength
- UL 94 HB Rated

APPLICATIONS

- Consumer goods
- Toys
- Appliances and housings

General		
Material Status	• Commercial: Active	
Availability	• Latin America	• North America
Features	• General Purpose • Good Moldability	• High Gloss • High Impact Resistance
Uses	• Appliances • Consumer Applications	• Housings • Toys
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)	4.5	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	325000	psi	ASTM D638
Tensile Strength (Yield, 73°F)	10000	psi	ASTM D638
Flexural Modulus (73°F)	315000	psi	ASTM D790
Flexural Strength (5.0% Strain)	9500	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°F	1.2	ft·lb/in	
73°F	6.5	ft·lb/in	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	109		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
CLTE - Flow	5.0E-5	in/in/°F	ASTM D696
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94

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Optical	Nominal Value	Unit	Test Method
Gloss (60°)	90		ASTM D523

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	2.0 to 4.0	hr
Mold Temperature	110 to 150	°F
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.5:1.0	

Notes

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