



Lustran® 433

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information

Product Description

Lustran® 433 is a general-purpose injection molding grade of ABS (Acrylonitrile Butadiene Styrene). It is a high impact, high-gloss ABS, available only in natural (NR) and black (BK904000).

FEATURES

- High impact strength
- High gloss
- UL 94 HB rated

APPLICATIONS

- Housings
- Toys
- Small appliances
- Consumer goods

General

Material Status	• Commercial: Active		
Availability	• Latin America	• North America	
Features	• General Purpose	• High Gloss	• High Impact Resistance
Uses	• Appliances • Consumer Applications	• General Purpose • Housings	• Toys
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate			ASTM D1238
220°C/10.0 kg	12	g/10 min	
230°C/3.8 kg	3.6	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	370000	psi	ASTM D638
Tensile Strength (Yield, 73°F)	6100	psi	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus (73°F)	380000	psi	ASTM D790
Flexural Strength (5.0% Strain)	10500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F	1.2	ft-lb/in	
73°F	7.0	ft-lb/in	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ASTM D785

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	197	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Annealed)	211	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	185	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Annealed)	202	°F	ASTM D648
CLTE - Flow	5.0E-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
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.