

Lustran® 433

Acrylonitrile Butadiene Styrene

INEOS Styrolution

PROSPECTOR®

www.ulprospector.com

Technical Data

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
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E44741-235636
Search for UL Yellow Card	• INEOS Styrolution • Lustran®
Availability	• Latin America • North America
Features	• General Purpose • High Gloss • High Impact Resistance
Uses	• Appliances • General Purpose • Consumer Applications • Housings • Toys
Appearance	• Black • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical

	Nominal Value Unit	Test Method
Melt Mass-Flow Rate (MFR)		ASTM D1238
220°C/10.0 kg	12 g/10 min	
230°C/3.8 kg	3.6 g/10 min	
Molding Shrinkage - Flow	0.40 to 0.60 %	ASTM D955

Mechanical

	Nominal Value Unit	Test Method
Tensile Modulus	2550 MPa	ASTM D638
Tensile Strength (Yield, 23°C)	42.1 MPa	ASTM D638
Tensile Elongation (Break)	30 %	ASTM D638
Flexural Modulus (23°C)	2620 MPa	ASTM D790
Flexural Strength (5.0% Strain)	72.4 MPa	ASTM D790

Impact

	Nominal Value Unit	Test Method
Notched Izod Impact		ASTM D256
-40°C	64 J/m	
23°C	370 J/m	

Hardness

	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	109	ASTM D785

Thermal

	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	91.7 °C	
0.45 MPa, Annealed	99.4 °C	
1.8 MPa, Unannealed	85.0 °C	
1.8 MPa, Annealed	94.4 °C	
CLTE - Flow	9.0E-5 cm/cm/°C	ASTM D696



Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94

Injection	Nominal Value Unit
Drying Temperature	79 °C
Drying Time	2.0 to 4.0 hr
Mold Temperature	43 to 66 °C
Screw L/D Ratio	20.0:1.0
Screw Compression Ratio	2.5:1.0

Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.
- ³ Typical properties: these are not to be construed as specifications.



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Where to Buy

Supplier

INEOS Styrolution

Frankfurt, Germany

Telephone: +49 69 5095501200

Web: <http://www.ineos-styrolution.com>

Distributor

Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

Entec Polymers

Telephone: 800-375-5440

Web: <http://www.entecpolymers.com/>

Availability: North America

M. Holland Canada Company

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

M. Holland Company

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

PolyOne Distribution

PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.

Telephone: 800-894-4266

Web: <http://polyonedistribution.com/>

Availability: Global

