



Lustran® 552

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information

Product Description

Lustran® 552 resin is a medium-gloss, medium-impact extrusion grade of ABS (acrylonitrile butadiene styrene). It provides a good balance between rigidity and impact strength, and has a stiff melt flow suitable for extrusion and thermoforming.

FEATURES

- Medium gloss
- Medium impact strength
- Good balance between rigidity and impact strength
- UL 94 HB rated

APPLICATIONS

- Profile extrusions
- Sheet substrate coextrusion

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Medium Gloss	• Medium Impact Resistance	
Uses	• Profiles	• Sheet	
Forms	• Pellets		
Processing Method	• Coextrusion • Extrusion	• Profile Extrusion • Thermoforming	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.06		ASTM D792
Melt Mass-Flow Rate (220°C/10.0 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	290000	psi	ASTM D638
Tensile Strength (Yield, 73°F)	5200	psi	ASTM D638
Flexural Modulus (73°F)	290000	psi	ASTM D790
Flexural Strength (5.0% Strain)	86000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-22°F	1.9	ft-lb/in	
0°F	2.4	ft-lb/in	
73°F	4.9	ft-lb/in	
Instrumented Dart Impact			ASTM D3763
Peak Force	264	in-lb	
Total Energy	384	in-lb	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

Lustran® 552

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	200	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	190	°F	ASTM D648
CLTE - Flow	4.6E-5	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	90		ASTM D523

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	2.0 to 4.0	hr
Melt Temperature	420 to 465	°F

Notes

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