Lustran® 556

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information

Product Description

Lustran® 556 resin is a low-gloss, medium-impact extrusion grade of ABS (acrylonitrile butadiene styrene). It has good melt strength for extrusion and thermoforming, and can be easily coextruded.

FEATURES

- Low gloss
- Medium impact strength
- Ease of coloring
- UL 94 HB rated

APPLICATIONS

- Motor vehicle dashboards
- Interior panels
- Interior trim

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Colorability • Good Melt Strength	• Low Gloss • Medium Impact Resistance	
Uses	• Automotive Applications • Automotive Instrument Panel	• Automotive Interior Parts • Automotive Interior Trim	
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	• Thermoforming

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.06		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	220000	psi	ASTM D638
Tensile Strength (Yield, 73°F)	2800	psi	ASTM D638
Tensile Strength (Break, 73°F)	3200	psi	ASTM D638
Flexural Modulus	210000	psi	ASTM D790
Flexural Strength (5.0% Strain)	4500	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°F	1.0	ft·lb/in	
0°F	1.3	ft·lb/in	
73°F	2.0	ft·lb/in	
Instrumented Dart Impact			ASTM D3763
Peak Force	228	in·lb	
Total Energy	264	in·lb	

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	205	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	187	°F	
CLTE - Flow	5.4E-5	in/in/°F	ASTM D696

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	2.0 to 4.0	hr
Melt Temperature	420 to 480	°F

Notes

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