



Lustran® LGA

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information

Product Description

Lustran® LGA resin is a low-gloss grade of ABS (acrylonitrile butadiene styrene). This automotive injection molding grade offers an excellent balance of rigidity, impact strength, and abuse resistance.

FEATURES

- SAE J1685: ABS0111
- Low gloss
- High flow
- Abuse resistant
- Balance of rigidity and impact strength

APPLICATIONS

- Pillars
- Consoles
- Scuff plate
- Interior quarter trim panels

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Flow	• Low Gloss	
Uses	• Automotive Applications	• Automotive Interior Trim	
Agency Ratings	• SAE J1685		
Automotive Specifications	• CHRYSLER MS-DB-200 CPN2744 • CHRYSLER MS-DB-200 CPN2877 • CHRYSLER MS-DB-200 CPN3128 • CHRYSLER MS-DB-200 CPN3178 • CHRYSLER MS-DB-200 CPN3394	• DAIMLER DBL 5404.31 • DAIMLER TRUCK 48-25358-000 • FORD ESB-M4D483-A1 • FORD WSS-M4D483-B1 • FORD WSS-M4D483-D1	• GM GMP.ABS.001 • GM GMP.ABS.002 • GM GMW15572P-ABS-T1 • TOYOTA TSM 5512G-1 • VOLKSWAGEN TL 527
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05		ASTM D792
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate			ASTM D1238
220°C/10.0 kg	21	g/10 min	
230°C/3.8 kg	7.0	g/10 min	
Melt Mass-Flow Rate (MFR)			ISO 1133
220°C/10.0 kg	21	g/10 min	
230°C/3.8 kg	7.0	g/10 min	

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Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	320000	psi	ASTM D638
Tensile Strength (Yield, 73°F)	5300	psi	ASTM D638
Tensile Stress (Yield, 73°F)	5660	psi	ISO 527-2
Flexural Modulus (73°F)	350000	psi	ASTM D790
Flexural Modulus	352000	psi	ISO 178
Flexural Strength (5.0% Strain)	10500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	3.2	ft·lb/in	ASTM D256
Notched Izod Impact (Area)			ASTM D256
-40°F	3.66	ft·lb/in ²	
73°F	7.71	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Rockwell Hardness (R-Scale)	105		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	194	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Annealed)	212	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	169	°F	
Deflection Temperature Under Load (264 psi, Annealed)	203	°F	ASTM D648
Vicat Softening Temperature	225	°F	ASTM D1525 ²
Vicat Softening Temperature	205	°F	ISO 306/B50
CLTE - Flow	5.0E-5	in/in/°F	ASTM D696
CLTE - Flow	5.0E-5	in/in/°F	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Mold Temperature	113 to 149	°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.

² Rate B (120°C/h), Loading 1 (10 N)