



Lustran® LGM

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information

Product Description

Lustran® LGM is a low-gloss, easy-flow grade of ABS (Acrylonitrile Butadiene Styrene). This general-purpose injection molding grade offers an excellent balance of rigidity, impact strength, and abuse resistance.

FEATURES

- Easy flow
- Low gloss
- Abuse resistant
- Balance of rigidity and impact strength
- UL 94 HB rated

APPLICATIONS

- Power tool housings
- Lawn and garden
- Business machines
- Keyboard and keys

General

Material Status	• Commercial: Active		
Availability	• Latin America	• North America	
Features	• General Purpose	• Good Flow	• Low Gloss
Uses	• Business Equipment	• Lawn and Garden Equipment	
	• Housings	• Power/Other Tools	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05		ASTM D792
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	
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	320000	psi	ASTM D638
Tensile Strength (Yield, 73°F)	5200	psi	ASTM D638
Flexural Modulus (73°F)	360000	psi	ASTM D790
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
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	192	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Annealed)	212	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	168	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Annealed)	203	°F	ASTM D648
Vicat Softening Temperature	223	°F	ASTM D1525 ²
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.

² Rate B (120°C/h), Loading 1 (10 N)