Lustran® ABS LGM

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Lustran ABS 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.
Lustran ABS LGM resin is designed for applications requiring stringent physical properties and a high-tech, low-gloss appearance. Typical applications include power tool housings; lawn and garden equipment; telecommunications equipment; and business machine applications, such as keyboard housings, keypads, and keycaps. As with any product, use of Lustran ABS LGM resin in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

General Information			
UL YellowCard	E44741-235659		
Features	Rigidity, high Gloss, low Impact resistance, good Good liquidity General		
Uses	Lawn and Garden Equipment Power/other tools Business equipment Communication Equipment Shell		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.05	g/cm³	ASTM D792
Specific Volume	0.950	cm³/g	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	21	g/10 min	ASTM D1238
230°C/3.8 kg	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2210	MPa	ASTM D638
Tensile Strength (Yield)	35.9	MPa	ASTM D638
Flexural Modulus	2480	MPa	ASTM D790
Flexural Strength (Yield)	72.4	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	170	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.18mm	88.9	°C	ASTM D648
0.45 MPa, unannealed, 12.7mm	92.2	°C	ASTM D648
0.45 MPa, annealed, 3.18mm	100	°C	ASTM D648
0.45 MPa, annealed, 12.7mm	102	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	75.6	°C	ASTM D648
1.8 MPa, unannealed, 12.7mm	87.2	°C	ASTM D648
1.8 MPa, annealed, 3.18mm	95.0	°C	ASTM D648
1.8 MPa, annealed, 12.7mm	100	°C	ASTM D648
Vicat Softening Temperature	106	°C	ASTM D1525 [1]
CLTE - Flow (-30 to 30°C)	9.0E-5	cm/cm/°C	ASTM D696
RTI Elec (1.57 mm)	60.0	°C	UL 746
RTI Imp (1.57 mm)	60.0	°C	UL 746
RTI (1.57 mm)	60.0	°C	UL 746
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
1.57 mm	HB		UL 94
3.18 mm	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
A	82.2 - 87.8	°C	
B	71.1 - 76.7	°C	
Drying Time			
A	2.0	hr	
B	4.0	hr	
Suggested Max Moisture	< 0.10	%	
Suggested Shot Size	50 - 75	%	
Suggested Max Regrind	20	%	
Rear Temperature	235 - 249	°C	
Middle Temperature	241 - 254	°C	
Front Temperature	246 - 260	°C	
Nozzle Temperature	246 - 260	°C	
Processing (Melt) Temp	246 - 266	°C	
Mold Temperature	43.3 - 65.6	°C	
Injection Pressure	68.9 - 110	MPa	
Injection Rate	Fast		
Back Pressure	0.345 - 0.689	MPa	
Clamp Tonnage	2.8 - 5.5	kN/cm^2	
Cushion	< 6.35	mm	

Screw L/D Ratio	20.0:1.0
Screw Compression Ratio	2.5:1.0
Injection instructions	
Hold Pressure: 50 - 75% of Injection PressureScrew Speed: Moderate	
NOTE	
1.	标准 B (120°C/h)

Recommended distributors for this material

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