Lustran® SMA 2316

Styrene Maleic Anhydride

INEOS ABS (USA)

Message:

Lustran SMA 2316 is a 16% glass-reinforced molding grade of impact-modified SMA (styrene/maleic anhydride) terpolymer offering an exceptional balance of processability and performance. Lustran SMA 2316 has high heat resistance coupled with rigidity and decorability, making it an ideal choice for automotive instrument panel and console applications. As with any product, use of Lustran SMA 2316 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			
Filler / Reinforcement	Glass fiber reinforced material, 16% filler by weight		
Additive	Impact modifier		
Features	Impact modification Rigid, good Workability, good Heat resistance, high		
Uses	Application in Automobile Field Car dashboard		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.20	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	3.3	g/10 min	
Molding Shrinkage			ISO 2577
Vertical flow direction	0.035	%	ISO 2577
Flow direction	0.028	%	ISO 2577
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
--	5500	MPa	ASTM D638
23°C	5780	MPa	ISO 527-2
Tensile Strength			
Yield	77.8	MPa	ASTM D638
Yield, -30°C	90.1	MPa	ISO 527-2
Yield, 23°C	83.6	MPa	ISO 527-2
Yield, 85°C	65.4	MPa	ISO 527-2
Yield, 107°C	56.2	MPa	ISO 527-2
Fracture, 23°C	84.7	MPa	ISO 527-2

Flexural Modulus			
--	4390	MPa	ASTM D790
--	5290	MPa	ISO 178
Flexural Stress			
-- [1]	129	MPa	ISO 178
Yield	124	MPa	ASTM D790
Poisson's Ratio [2]	0.41		
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.7	kJ/m^2	ISO 179/1eA
23°C	11	kJ/m^2	ISO 179/1eA
Notched Izod Impact			
-30°C, 3.18 mm [3]	69	J/m	ASTM D256
23°C, 3.18 mm [4]	85	J/m	ASTM D256
-40°C [5]	8.1	kJ/m^2	ISO 180/1A
23°C [6]	9.5	kJ/m^2	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.18mm [7]	128	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm span	129	°C	ISO 75-2/B
1.8 MPa, unannealed, 3.18mm [8]	103	°C	ASTM D648
1.8 MPa, unannealed, 4.00mm span	121	°C	ISO 75-2/A
Vicat Softening Temperature			
--	141	°C	ASTM D1525 [9]
--	126	°C	ISO 306/B50
Linear thermal expansion coefficient			ISO 11359-2
Flow	4.1E-5	cm/cm/°C	ISO 11359-2
Lateral	4.7E-5	cm/cm/°C	ISO 11359-2
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate	29	mm/min	SAE J369
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.0 - 93.0	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.10	%	
Suggested Shot Size	50 - 75	%	
Suggested Max Regrind	20	%	
Rear Temperature	240 - 255	°C	
Middle Temperature	245 - 260	°C	
Front Temperature	250 - 265	°C	
Nozzle Temperature	250 - 265	°C	
Processing (Melt) Temp	250 - 265	°C	
Mold Temperature	60.0 - 85.0	°C	

Injection Rate	Moderate	
Back Pressure	0.172 - 0.345	MPa
Clamp Tonnage	2.8 - 5.5	kN/cm²
Cushion	3.18	mm
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.5:1.0	

Injection instructions
Screw Speed: ModerateInlet Air Dew Point: -20°F

NOTE	
1.	Yield
2.	Across Flow: 0.39
3.	0.5x0.125 in
4.	0.5x0.125 in
5.	4x10 mm
6.	4x10 mm
7.	0.5x0.125 in
8.	0.5x0.125 in
9.	标准 B (120°C/h), 压 力1 (10N)

Recommended distributors for this material

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