

Lustran® SMA 2171

Styrene Maleic Anhydride

INEOS ABS (USA)

Message:

Lustran SMA 2171 is a high heat injection molding grade of impact-modified SMA (styrene/maleic anhydride) terpolymer offering an exceptional balance of processability and performance. Lustran SMA 2171 has high heat resistance coupled with excellent chemical and impact resistance. As with any product, use of Lustran SMA 2171 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			
Features	Impact resistance, good		
	Workability, good		
	Good chemical resistance		
	Heat resistance, high		
	Terpolymer		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	2030	MPa	ASTM D638
--	2050	MPa	ISO 527-2
Tensile Strength			
Yield	31.3	MPa	ASTM D638
Yield	30.0	MPa	ISO 527-2
Fracture	29.1	MPa	ASTM D638
Fracture	31.0	MPa	ISO 527-2
Flexural Modulus			
--	2070	MPa	ASTM D790
--	2030	MPa	ISO 178
Flexural Stress			
-- ¹	57.0	MPa	ISO 178
Yield	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
-30°C, 3.18 mm	80	J/m	ASTM D256
23°C, 3.18 mm	180	J/m	ASTM D256
-30°C ²	7.3	kJ/m ²	ISO 180/1A
23°C ³	18	kJ/m ²	ISO 180/1A
Instrumented Dart Impact			ASTM D3763
-30°C, Energy Max	8.50	J	ASTM D3763
-30°C, Energy Peak	8.00	J	ASTM D3763
23°C, Energy Max	20.0	J	ASTM D3763
23°C, Energy Peak	16.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.18mm	105	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm span	106	°C	ISO 75-2/B
1.8 MPa, not annealed, 0.125mm	90.0	°C	ASTM D648
1.8 MPa, unannealed, 4.00mm span	92.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	127	°C	ASTM D1525, ISO 306/A120 4 ⁴
--	110	°C	ASTM D1525, ISO 306/B50 5 ⁵
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	%	
Rear Temperature	240 - 255	°C	
Middle Temperature	245 - 260	°C	
Front Temperature	250 - 265	°C	
Nozzle Temperature	250 - 265	°C	
Processing (Melt) Temp	250 - 270	°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/cm ²	
Cushion	< 6.35	mm	
Screw L/D Ratio	20.0:1.0		
Screw Compression Ratio	2.5:1.0		
Injection instructions			
Screw Speed: Moderate			
NOTE			
1.	Yield		
2.	4 mm		

3.	4 mm
4.	标准 B (120°C/h), 压力1 (10N)
5.	速率 A (50°C/h), 载荷2 (50N)

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