

Ineos ABS Lustran[®] SMA 2171 SMA, Injection Molding Grade

Category : Polymer , Thermoplastic , SMA Polymer , Styrene-Maleic Anhydride (SMA), Heat Resistant

Material Notes:

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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-SMA-2171-SMA-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM-D792
Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM-D1238
	@Load 10.0 kg, Temperature 220 Å°C	@Load 22.0 lb, Temperature 428 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	98	98	ASTM-D785
Tensile Strength at Break	29.1 MPa	4220 psi	ASTM-D638
	31.0 MPa	4500 psi	ISO 527
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527
	31.3 MPa	4540 psi	ASTM-D638
Tensile Modulus	2.03 GPa	295 ksi	ASTM-D638
	2.05 GPa	297 ksi	ISO 527
Flexural Yield Strength	57.0 MPa	8270 psi	ISO 178
	93.1 MPa	13500 psi	ASTM-D790
Flexural Modulus	2.03 GPa	294 ksi	ISO 178
	2.07 GPa	300 ksi	ASTM-D790
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM-D256
	@Thickness 3.17 mm, Temperature -30.0 Å°C	@Thickness 0.125 in, Temperature -22.0 Å°F	
	1.76 J/cm	3.30 ft-lb/in	ASTM-D256
	@Thickness 3.17 mm, Temperature 23.0 Å°C	@Thickness 0.125 in, Temperature 73.4 Å°F	

Mechanical Properties <i>Izod Impact, Notched (ISO)</i>	7.30 kJ/m ² Metric	3.47 ft-lb/in ² English	Comments ISO 180/1A
	@Thickness 4.00 mm, Temperature -30.0 °C	@Thickness 0.157 in, Temperature -22.0 °F	
	18.0 kJ/m ²	8.57 ft-lb/in ²	ISO 180/1A
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Impact Test	8.00 J	5.90 ft-lb	Multi-Axial Impact, Fractovis J; Energy Peak; ASTM-D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.50 J	6.27 ft-lb	Multi-Axial Impact, Fractovis J; Energy Max; ASTM-D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	16.0 J	11.8 ft-lb	Multi-Axial Impact, Fractovis J; Energy Peak; ASTM-D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	20.0 J	14.8 ft-lb	Multi-Axial Impact, Fractovis J; Energy Max; ASTM-D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	Unannealed; ASTM-D648
	@Thickness 3.17 mm	@Thickness 0.125 in	
	106 °C	223 °F	Unannealed; ISO 75
	@Thickness 4.00 mm	@Thickness 0.157 in	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	Unannealed; ASTM-D648
	@Thickness 3.17 mm	@Thickness 0.125 in	
	92.0 °C	198 °F	Unannealed; ISO 75
	@Thickness 4.00 mm	@Thickness 0.157 in	
Vicat Softening Point	110 °C	230 °F	50 °C/hour; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	127 °C	261 °F	120 °C/hour; ASTM-D1525
	@Load 1.00 kg	@Load 2.20 lb	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 255 °C	464 - 491 °F	Injection Molding

Middle Barrel Temperature Processing Properties	245 - 260 Å°C Metric	473 - 500 Å°F English	Injection Molding Comments
Front Barrel Temperature	250 - 265 Å°C	482 - 509 Å°F	Injection Molding
Nozzle Temperature	250 - 265 Å°C	482 - 509 Å°F	Injection Molding
Melt Temperature	250 - 270 Å°C	482 - 518 Å°F	Injection Molding
Mold Temperature	60.0 - 85.0 Å°C	140 - 185 Å°F	Injection Molding
Drying Temperature	82.0 - 93.0 Å°C @Time 7200 - 10800 sec	180 - 199 Å°F @Time 2.00 - 3.00 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	
Dew Point	<= -29.0 Å°C	<= -20.2 Å°F	inlet air
Back Pressure	0.172 - 0.345 MPa	25.0 - 50.0 psi	Injection Molding
Clamp Pressure	30.8 - 61.6 MPa	4470 - 8930 psi	Injection Molding
Cushion	<= 0.635 cm	<= 0.250 in	Injection Molding

Descriptive Properties	Value	Comments
Injection Speed	Moderate	Injection Molding
Screw Compression Ratio	2.5:1	Injection Molding
Screw Length-to-Diameter Ratio	>= 20:1	Injection Molding
Screw Speed	Moderate, Injection Molding	
Shot Weight-to-Machine Capacity Ratio	0.5-0.75	Injection Molding

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China