

Ineos ABS Lustran® 288 ABS, Injection Molding Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

Material Notes:

Lustran® ABS 288 is a very high-flow injection molding grade of ABS (acrylonitrile butadiene styrene) with good impact strength and high gloss. It is intended for use in a wide range of applications, particularly in thin-walled components for telecommunications, office equipment, consumer and other office products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-288-ABS-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM-D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM-D955
Melt Flow	30 g/10 min @Load 10.0 kg, Temperature 220 Â°C	30 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM-D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	ISO 527
Tensile Modulus	2.80 GPa	406 ksi	ISO 527
Flexural Strength	66.0 MPa	9570 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/mÂ² @Thickness 4.00 mm, Temperature -30.0 Â°C	6.19 ft-lb/inÂ² @Thickness 0.157 in, Temperature -22.0 Â°F	ISO 180
	24.0 kJ/mÂ² @Thickness 4.00 mm, Temperature 23.0 Â°C	11.4 ft-lb/inÂ² @Thickness 0.157 in, Temperature 73.4 Â°F	ISO 180
Impact Test	9.00 J @Temperature -30.0 Â°C	6.64 ft-lb @Temperature -22.0 Â°F	Instrumented Impact; Total Energy; ASTM-D3763
	40.0 J @Temperature 23.0 Â°C	29.5 ft-lb @Temperature 73.4 Â°F	Instrumented Impact; Total Energy; ASTM-D3763

Thermal Properties	Metric	English	Comments
	85.0 Â°C	185 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (69 psi)	76.0 Â°C @Thickness 4.00 mm	169 Â°F @Thickness 0.157 in	Unannealed; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	76.0 Â°C @Thickness 4.00 mm	169 Â°F @Thickness 0.157 in	Unannealed; ISO 75
Vicat Softening Point	94.0 Â°C @Load 5.00 kg	201 Â°F @Load 11.0 lb	50Â°C/hour; ISO 306
	104 Â°C @Load 1.00 kg	219 Â°F @Load 2.20 lb	120Â°C/hour; ISO 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Optical Properties	Metric	English	Comments
Gloss	95 %	95 %	Angle 60Â°; ASTM-D523

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	235 - 250 Â°C	455 - 482 Â°F	Injection Molding
Middle Barrel Temperature	240 - 255 Â°C	464 - 491 Â°F	Injection Molding
Front Barrel Temperature	245 - 260 Â°C	473 - 500 Â°F	Injection Molding
Nozzle Temperature	245 - 260 Â°C	473 - 500 Â°F	Injection Molding
Melt Temperature	245 - 265 Â°C	473 - 509 Â°F	Injection Molding
Mold Temperature	45.0 - 65.0 Â°C	113 - 149 Â°F	Injection Molding
Drying Temperature	71.0 - 77.0 Â°C @Time 14400 sec	160 - 171 Â°F @Time 4.00 hour	
	82.0 - 88.0 Â°C @Time 7200 sec	180 - 190 Â°F @Time 2.00 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	
Dew Point	<= -29.0 Â°C	<= -20.2 Â°F	inlet air
Injection Pressure	68.9 - 110 MPa	10000 - 16000 psi	Injection Molding
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	Injection Molding

Clamp Pressure Processing Properties	30.8 - 61.6 MPa Metric	4470 - 8930 psi English	Injection Molding Comments
Cushion	<= 0.635 cm	<= 0.250 in	Injection Molding

Descriptive Properties	Value	Comments
Hold Pressure	50-75% of Injection Pressure, Injection Molding	
Injection Speed	High	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

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