

Ineos ABS Lustran® ABS 450 Injection Molding Grade

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

Material Notes:

Lustran® ABS 450 has medium impact strength, high flow, and is injection molding grade.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-ABS-450-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294-4
Melt Flow	27 g/10 min @Load 10.0 kg, Temperature 220 °C	27 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ISO 2039-2
Tensile Strength at Break	34.0 MPa	4930 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	48.0 MPa	6960 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	20 %	20 %	50 mm/min; acc. ISO 527-1,-2
Tensile Modulus	2.50 GPa	363 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	71.0 MPa	10300 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1A
	13.0 kJ/m ² @Temperature -20.0 °C	6.19 ft-lb/in ² @Temperature -4.00 °F	ISO 180-1A
	17.0 kJ/m ² @Temperature 23.0 °C	8.09 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	ISO 75-1,-2

Thermal Properties (20°C/68°F) Tensile strength at 1.8 MPa (26.4 psi)	Metric 92.0 Å C	English 198 Å F	Comments ISO 18, 1, 2
Vicat Softening Point	99.0 Å C @Load 5.10 kg	210 Å F @Load 11.2 lb	120 Å C/hour; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
Gloss	90 %	90 %	Angle 60 Å ; ISO 2813

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