

Ineos ABS Lustran® 448

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

Material Notes:

Key Features: Unfilled High impact or high impact modified Suitable processing methods: Injection molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-448.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	
Melt Flow	10 g/10 min @Load 10.0 kg, Temperature 220 °C	10 g/10 min @Load 22.0 lb, Temperature 428 °F	cm ³ /10 min.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.4 MPa	6580 psi	
Elongation at Break	25 %	25 %	Nominal
Elongation at Yield	3.6 %	3.6 %	
Tensile Modulus	2.31 GPa	335 ksi	
Charpy Impact Unnotched	11.0 J/cm ² @Temperature -30.0 °C	52.4 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	3.60 J/cm ²	17.1 ft-lb/in ²	
	0.870 J/cm ² @Temperature -30.0 °C	4.14 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °F	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL Recognized

Thermal Properties	Metric	English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	UL Recognized

Processing Properties	Metric	English	Comments
Melt Temperature	250 Â°C	482 Â°F	Injection Molding
Mold Temperature	60.0 Â°C	140 Â°F	Injection Molding
Injection Velocity	200 mm/sec	7.87 in/sec	
Injection Pressure	55.0 MPa	7980 psi	

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