

Ineos ABS Lustran® 446

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-446.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 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	41.3 MPa	5990 psi	
Elongation at Break	25 %	25 %	Nominal
Elongation at Yield	3.3 %	3.3 %	
Tensile Modulus	2.48 GPa	360 ksi	
Charpy Impact, Notched	4.00 J/cm ²	19.0 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	88.0 µm/m-°C @Temperature 20.0 °C	48.9 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	
Vicat Softening Point	97.0 °C	207 °F	50°C/h 50N

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

Processing Properties

Metric

English

Comments

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