

Ineos ABS Lustran® E401

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

Material Notes:

Very high surface resistance, high surface gloss.,Property data per ISO test methods.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-E401.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Melt Flow	5.0 g/10 min @Load 10.0 kg, Temperature 220 °C	5.0 g/10 min @Load 22.0 lb, Temperature 428 °F	Estimated using room temperature density

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	
Elongation at Yield	2.5 %	2.5 %	
Tensile Modulus	1.90 GPa	276 ksi	
Charpy Impact Unnotched	21.0 J/cm ²	99.9 ft-lb/in ²	
	17.0 J/cm ² @Temperature -30.0 °C	80.9 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	3.00 J/cm ²	14.3 ft-lb/in ²	
	1.60 J/cm ² @Temperature -30.0 °C	7.61 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	0.900 µm/m-°C @Temperature 20.0 °C	0.500 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C	201 °F	
Vicat Softening Point	99.0 °C	210 °F	
	HB	HB	

Flammability UL 94			
Thermal Properties	Metric	English	Comments
	@ Thickness 1.60 mm	@ Thickness 0.0630 in	
Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Constant	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.1	3.1	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0050	0.0050	
Comparative Tracking Index	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0090	0.0090	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	600 V	600 V	

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