

Ineos ABS Lustran® M305

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

Material Notes:

Grade for smart cards, good dimensional accuracy, excellent dynamic loading capacity.,Property data per ISO test methods.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-M305.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	
Melt Flow	13 g/10 min @Load 10.0 kg, Temperature 220 °C	13 g/10 min @Load 22.0 lb, Temperature 428 °F	Estimated using room temperature density

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	
Elongation at Yield	2.5 %	2.5 %	
Tensile Modulus	2.30 GPa	334 ksi	
Charpy Impact Unnotched	15.0 J/cm ²	71.4 ft-lb/in ²	
	11.0 J/cm ² @Temperature -30.0 °C	52.4 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	2.10 J/cm ²	9.99 ft-lb/in ²	
	1.10 J/cm ² @Temperature -30.0 °C	5.24 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)	98.0 °C	208 °F	
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C	201 °F	
Vicat Softening Point	99.0 °C	210 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	
Surface Resistance	$\geq 1.00 \times 10^{15}$ ohm	$\geq 1.00 \times 10^{15}$ ohm	
Dielectric Constant	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Constant	3.1	3.1	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	
Dissipation Factor	0.0050	0.0050	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0080	0.0080	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

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