

Ineos ABS Lustran® 456 Extrusion, Matte-Gloss (discontinued **)

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

Material Notes:

Properties tested in transverse direction (worst case) on 125-mil (3.2 mm) extruded sheets specimens with

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-456-Extrusion-Matte-Gloss-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Melt Flow	1.2 g/10 min	1.2 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	68	68	ASTM D785
Tensile Strength, Yield	13.0 MPa	1890 psi	ASTM D638
Tensile Modulus	1.00 GPa	145 ksi	ASTM D638
Flexural Yield Strength	28.3 MPa	4100 psi	ASTM D790
Flexural Modulus	1.20 GPa	174 ksi	ASTM D790
Izod Impact, Notched	1.90 J/cm	3.56 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
	0.900 J/cm	1.69 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
Impact Test	38.0 J	28.0 ft-lb	Instrumented Impact, Total Energy; 2.5 mm thick, 7.6 mph, 3 in. clamp, 0.5 in. dart; ASTM D3763
	@Thickness 2.50 mm	@Thickness 0.0984 in	

Thermal Properties	Metric	English	Comments
CTE, linear	95.0 µm/m-°C	52.8 µin/in-°F	Injection molded sample; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	89.0 °C	192 °F	Unannealed; ASTM D648
	@Thickness 3.17 mm	@Thickness 0.125 in	
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	Unannealed; ASTM D648

Thermal Properties	@Thickness 3.17 mm Metric	@Thickness 0.125 in English	Comments
UL RTI, Electrical	60.0 °C @Thickness 1.60 mm	140 °F @Thickness 0.0630 in	UL746B
UL RTI, Mechanical with Impact	60.0 °C @Thickness 1.60 mm	140 °F @Thickness 0.0630 in	UL746B
UL RTI, Mechanical without Impact	60.0 °C @Thickness 1.60 mm	140 °F @Thickness 0.0630 in	UL746B
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	
	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Optical Properties	Metric	English	Comments
Gloss	<= 10 %	<= 10 %	60°; Sheet; ASTM D523
Transmission, Visible	0.00 %	0.00 %	Opaque only

Processing Properties	Metric	English	Comments
Melt Temperature	215 - 240 °C	419 - 464 °F	

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