

Ineos ABS Lustran® 552 Extrusion, Profile/Substrate

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-552-Extrusion-ProfileSubstrate.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Melt Flow	5.7 g/10 min @Load 10.0 kg, Temperature 230 °C	5.7 g/10 min @Load 22.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength, Yield	36.0 MPa	5220 psi	ASTM D638
Tensile Modulus	1.70 GPa	247 ksi	ASTM D638
Flexural Yield Strength	59.3 MPa	8600 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	2.10 J/cm @Thickness 3.17 mm	3.93 ft-lb/in @Thickness 0.125 in	ASTM D256
	0.750 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	1.41 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256
Impact Test	31.0 J @Thickness 2.50 mm	22.9 ft-lb @Thickness 0.0984 in	Instrumented Impact, Total Energy; 2.5 mm thick, 7.6 mph, 3 in. clamp, 0.5 in. dart; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	
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

Thermal Properties UL RTI, Mechanical without Impact	50.0 A°C Metric	140 A°F English	Comments UL 746B
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Flammability, UL94	HB	HB	Natural color
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	Natural color
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	0.00 %	0.00 %	Opaque only

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