

Ineos ABS Triax[®] 1220 S ABS + Polyamide Blend, Extrusion, Conditioned

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS)/Nylon Blend , Nylon

Material Notes:

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

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http://www.lookpolymers.com/polymer_ineos-ABS-Triax-1220-S-ABS-Polyamide-Blend-Extrusion-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ASTM D785
Tensile Strength, Ultimate	32.0 MPa	4640 psi	ASTM D638
Tensile Strength, Yield	37.0 MPa	5370 psi	ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Tensile Modulus	1.70 GPa	247 ksi	ASTM D638
Flexural Yield Strength	61.0 MPa	8850 psi	at 5% strain; ASTM D790
Flexural Modulus	1.70 GPa	247 ksi	ASTM D790
Izod Impact, Notched	9.00 J/cm @Thickness 3.17 mm	16.9 ft-lb/in @Thickness 0.125 in	ASTM D256
	1.00 J/cm @Thickness 3.17 mm, Temperature -40.0 Å°C	1.87 ft-lb/in @Thickness 0.125 in, Temperature -40.0 Å°F	ASTM D256
Impact Test	58.0 J @Thickness 3.20 mm	42.8 ft-lb @Thickness 0.126 in	Instrumented Total Impact; 12.5 mm dart, 75 mm clamp, 3.3 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 Å°C @Thickness 3.17 mm	190 Å°F @Thickness 0.125 in	Unannealed; ASTM D648
UL RTI, Electrical	60.0 Å°C @Thickness 1.50 mm	140 Å°F @Thickness 0.0591 in	UL746B
UL RTI, Mechanical with Impact	60.0 Å°C @Thickness 1.50 mm	140 Å°F @Thickness 0.0591 in	UL746B

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical without Impact	@Thickness 1.50 mm	@Thickness 0.0591 in	UL746B
Flammability, UL94	HB @Thickness 1.57 mm	HB @Thickness 0.0618 in	White color
	HB @Thickness 1.57 mm	HB @Thickness 0.0618 in	White color

Electrical Properties	Metric	English	Comments
Electrical Resistivity	9.00e+12 ohm-cm	9.00e+12 ohm-cm	Tinfoil Electrodes; ASTM D257
Surface Resistance	3.20e+13 ohm	3.20e+13 ohm	ASTM D257
Dielectric Constant	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	15.0 kV/mm @Thickness 1.60 mm	381 kV/in @Thickness 0.0630 in	Short time under oil; ASTM D149
Dissipation Factor	0.039 @Frequency 1e+6 Hz	0.039 @Frequency 1e+6 Hz	ASTM D150

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