

Ineos ABS Triax[®] 1220 S ABS + Polyamide Blend, Extrusion, Dry as Extruded

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-Dry-as-Extruded.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	95	95	ASTM D785
Tensile Strength, Ultimate	39.0 MPa	5660 psi	ASTM D638
Tensile Strength, Yield	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	150 %	150 %	ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	ASTM D638
Flexural Yield Strength	70.0 MPa	10200 psi	at 5% strain; ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	9.50 J/cm	17.8 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Impact Test	2.50 J/cm	4.68 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -40.0 Å°C	@Thickness 0.126 in, Temperature -40.0 Å°F	
Impact Test	61.0 J	45.0 ft-lb	Instrumented Total Impact; 3.2 mm thick, 12.5 mm dart, 75 mm clamp, 3.3 m/s; ASTM D3763
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	73.0 Å°C	163 Å°F	Unannealed; ASTM D648
	@Thickness 3.17 mm	@Thickness 0.125 in	
UL RTI, Electrical	60.0 Å°C	140 Å°F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical with Impact	60.0 Å°C	140 Å°F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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	9.70e+15 ohm-cm	9.70e+15 ohm-cm	Tinfoil Electrodes; ASTM D257
Surface Resistance	8.30e+15 ohm	8.30e+15 ohm	ASTM D257
Dielectric Constant	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	16.7 kV/mm @Thickness 1.60 mm	424 kV/in @Thickness 0.0630 in	Short time under oil; ASTM D149
Dissipation Factor	0.024 @Frequency 1e+6 Hz	0.024 @Frequency 1e+6 Hz	ASTM D150

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China