

Ineos ABS TRIAXÂ® 1120 ABS/Nylon Blend, Injection Grade, As Conditioned

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

Material Notes:

Injection molding grade with good flow and stress corrosion cracking resistance, good chemical resistance (fuel, cleaning agents), high impact and notched impact strength, good acoustical damping behavior.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-TRIAX-1120-ABS-Nylon-Blend-Injection-Grade-As-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	Dry As Molded
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength, Yield	30.0 MPa	4350 psi	
Elongation at Break	190 %	190 %	ASTM D638
Elongation at Yield	13 %	13 %	
Tensile Modulus	1.03 GPa	149 ksi	
Flexural Yield Strength	57.0 MPa	8270 psi	at 5% strain; ASTM D790
Flexural Modulus	1.20 GPa	174 ksi	ASTM D790
Izod Impact, Notched	8.00 J/cm @Thickness 3.20 mm	15.0 ft-lb/in @Thickness 0.126 in	ASTM D256
	0.800 J/cm @Thickness 3.20 mm, Temperature -40.0 Â°C	1.50 ft-lb/in @Thickness 0.126 in, Temperature -40.0 Â°F	ASTM D256
Charpy Impact Unnotched	NB	NB	
	1.60 J/cm ² @Temperature -30.0 Â°C	7.61 ft-lb/in ² @Temperature -22.0 Â°F	
Charpy Impact, Notched	7.40 J/cm ²	35.2 ft-lb/in ²	
Impact Test	42.0 J @Thickness 2.50 mm	31.0 ft-lb @Thickness 0.0984 in	Instrumented Total Impact; 2.5 mm thick, 12.5 mm dart, 40 mm clamp, 3.3 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	99.0 Â°C	210 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	93.0 Â°C	199 Â°F	
Vicat Softening Point	98.0 Â°C	208 Â°F	
UL RTI, Electrical	110 Â°C	230 Â°F	
UL RTI, Mechanical with Impact	65.0 Â°C	149 Â°F	
UL RTI, Mechanical without Impact	105 Â°C	221 Â°F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	9.00e+12 ohm-cm	9.00e+12 ohm-cm	ASTM D257
Surface Resistance	3.20e+13 ohm	3.20e+13 ohm	ASTM D257
Dielectric Constant	3.5	3.5	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	Short time under oil; ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Dissipation Factor	0.039	0.039	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	60 - 120 sec	60 - 120 sec	UL Rating PLC 6 (60-120 sec)
	@Thickness 3.18 mm	@Thickness 0.125 in	
Comparative Tracking Index	>= 600 V	>= 600 V	UL Rating PLC 0 (>600 V)
	@Thickness 3.18 mm	@Thickness 0.125 in	
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL Rating PLC 2 (30-60 sec)
	@Thickness 3.18 mm	@Thickness 0.125 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL Rating PLC 0 (>120 arcs)
	@Thickness 1.57 mm	@Thickness 0.0618 in	
High Voltage Arc-Tracking Rate,	<= 10.0 mm/min	<= 0.394 in/min	

HVTR Electrical Properties	Metric @ Thickness 3.18 mm	English @ Thickness 0.125 in	UL Rating PLC 0 (-10 mm/min.) Comments
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