

Ineos ABS TRIAXÂ® 1120 ABS/Nylon Blend, Injection Grade, Dry as Molded

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-Dry-as-Molded.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	
Water Absorption	2.0 %	2.0 %	Saturation in water
Moisture Absorption at Equilibrium	2.0 %	2.0 %	Equilibrium at 50% RH
Water Absorption at Saturation	2.0 %	2.0 %	
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 260 Â°C	6.0 g/10 min @Load 11.0 lb, Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	40.0 MPa	5800 psi	
Elongation at Break	140 %	140 %	ASTM D638
Elongation at Yield	3.2 %	3.2 %	
Tensile Modulus	1.85 GPa	268 ksi	
Flexural Yield Strength	75.0 MPa	10900 psi	at 5% strain; ASTM D790
Flexural Modulus	2.10 GPa	305 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	

Mechanical Properties	Metric	English	Comments
	1.60 J/cm ^Å	7.61 ft-lb/in ^Å	
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Charpy Impact, Notched	7.40 J/cm ^Å	35.2 ft-lb/in ^Å	
Impact Test	14.0 J	10.3 ft-lb	Instrumented Total Impact; 3.2 mm thick, 12.5 mm dart, 75 mm clamp, 6.7 m/s; ASTM D3763
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	104 Åµm/m-Å°C	57.8 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
CTE, linear, Transverse to Flow	118 Åµm/m-Å°C	65.6 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	91.0 Å°C	196 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	68.0 Å°C	154 Å°F	
Vicat Softening Point	102 Å°C	216 Å°F	
UL RTI, Electrical	110 Å°C	230 Å°F	
UL RTI, Mechanical with Impact	65.0 Å°C	149 Å°F	
UL RTI, Mechanical without Impact	105 Å°C	221 Å°F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	
Dielectric Constant	3.6	3.6	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.3	4.3	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	
	0.029	0.029	

Electrical Properties	Metric	English	Comments
	0.030	0.030	
	@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	
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, HVTR	<= 10.0 mm/min	<= 0.394 in/min	UL Rating PLC 0 (<10 mm/min.)
	@Thickness 3.18 mm	@Thickness 0.125 in	

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