

Ineos ABS TRIAXÂ® 1220 S ABS/Nylon Blend, Dry as Molded

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

Material Notes:

Extrusion and injection molding grade with good 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-1220-S-ABS-Nylon-Blend-Dry-as-Molded.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 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	0.0045 cm/cm	0.0045 in/in	ASTM D955
Melt Flow	3.0 g/10 min	3.0 g/10 min	
	@Load 5.00 kg, Temperature 260 Â°C	@Load 11.0 lb, Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ASTM D785
Tensile Strength, Ultimate	39.0 MPa	5660 psi	ASTM D638
Tensile Strength, Yield	39.0 MPa	5660 psi	
Elongation at Break	150 %	150 %	ASTM D638
Elongation at Yield	3.6 %	3.6 %	
Tensile Modulus	1.63 GPa	236 ksi	
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 3.20 mm	@Thickness 0.126 in	
	2.50 J/cm	4.68 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -40.0 Â°C	@Thickness 0.126 in, Temperature -40.0 Â°F	

Charpy Impact Unnotched Mechanical Properties	Metric	English	Comments
	2.20 J/cm ²	10.5 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	6.90 J/cm ²	32.8 ft-lb/in ²	
Impact Test	49.0 J	36.1 ft-lb	Instrumented Total Impact; 2.5 mm thick, 12.5 mm dart, 40 mm clamp, 3.3 m/s; ASTM D3763
	@Thickness 2.50 mm	@Thickness 0.0984 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	106 Åµm/m-Å°C	58.9 Åµin/in-Å°F	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
CTE, linear, Transverse to Flow	116 Åµm/m-Å°C	64.4 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)	64.0 Å°C	147 Å°F	
Vicat Softening Point	99.0 Å°C	210 Å°F	
UL RTI, Electrical	60.0 Å°C	140 Å°F	
UL RTI, Mechanical with Impact	60.0 Å°C	140 Å°F	
UL RTI, Mechanical without Impact	60.0 Å°C	140 Å°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	9.70e+15 ohm-cm	9.70e+15 ohm-cm	ASTM D257
Surface Resistance	8.30e+15 ohm	8.30e+15 ohm	ASTM D257
Dielectric Constant	3.5	3.5	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	17.0 kV/mm	432 kV/in	

Dielectric Strength Electrical Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	Short time under oil; ASTM D149 Comments
Dissipation Factor	0.024 @Frequency 1e+6 Hz	0.024 @Frequency 1e+6 Hz	ASTM D150

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