

Ineos ABS TRIAXÂ® 1220 S ABS/Nylon Blend, As Conditioned

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-As-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/inÂ³	Dry As Molded
Linear Mold Shrinkage	0.0045 cm/cm	0.0045 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	69	69	ASTM D785
Tensile Strength, Ultimate	32.0 MPa	4640 psi	ASTM D638
Tensile Strength, Yield	27.0 MPa	3920 psi	
Elongation at Break	90 %	90 %	ASTM D638
Elongation at Yield	11 %	11 %	
Tensile Modulus	0.900 GPa	131 ksi	
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	16.9 ft-lb/in	ASTM D256
	@Thickness 3.20 mm	@Thickness 0.126 in	
	1.00 J/cm	1.87 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	NB	NB	
	2.30 J/cmÂ²	10.9 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	7.00 J/cmÂ²	33.3 ft-lb/inÂ²	
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

Mechanical Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	nv/s: ASTM D3763 Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 Â°C	205 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	
Vicat Softening Point	94.0 Â°C	201 Â°F	
UL RTI, Electrical	60.0 Â°C	140 Â°F	
UL RTI, Mechanical with Impact	60.0 Â°C	140 Â°F	
UL RTI, Mechanical without Impact	60.0 Â°C	140 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	

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