

Ineos ABS Triax® 1120 ABS + Polyamide Blend (DAM)

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

Material Notes:

Key Features: Unfilled, Platable, High impact or high impact modified, Suitable processing methods: Injection molding, Film extrusion, Blow molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Triax-1120-ABS-Polyamide-Blend-DAM.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	Melt
	1.06 g/cc	0.0383 lb/in ³	
Water Absorption	6.0 %	6.0 %	
Moisture Absorption at Equilibrium	1.7 %	1.7 %	23°C/50% R.H.
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	
Melt Flow	7.0 g/10 min	7.0 g/10 min	
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	3.2 %	3.2 %	
Tensile Modulus	1.90 GPa	276 ksi	
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	7.40 J/cm ²	35.2 ft-lb/in ²	
	1.60 J/cm ²	7.61 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Puncture Energy	40.0 J	29.5 ft-lb	Puncture energy +23°C

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	105 $\mu\text{m/m-}^{\circ}\text{C}$	58.3 $\mu\text{in/in-}^{\circ}\text{F}$	Energy -30 $^{\circ}\text{C}$
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	115 $\mu\text{m/m-}^{\circ}\text{C}$	63.9 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Specific Heat Capacity	2.20 J/g- $^{\circ}\text{C}$	0.526 BTU/lb- $^{\circ}\text{F}$	Melt
Thermal Conductivity	0.145 W/m-K	1.01 BTU-in/hr-ft $^{\circ}\text{F}$	Melt
Deflection Temperature at 0.46 MPa (66 psi)	91.0 $^{\circ}\text{C}$	196 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	68.0 $^{\circ}\text{C}$	154 $^{\circ}\text{F}$	
Vicat Softening Point	102 $^{\circ}\text{C}$	216 $^{\circ}\text{F}$	50 $^{\circ}\text{C/h}$ 50N

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 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	
Dissipation Factor	0.029	0.029	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.030	0.030	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

Processing Properties	Metric	English	Comments
Melt Temperature	260 $^{\circ}\text{C}$	500 $^{\circ}\text{F}$	Injection Molding

Mold Temperature Processing Properties	80.0 Â°C Metric	176 Â°F English	Injection Molding Comments
Ejection Temperature	90.0 Â°C	194 Â°F	
Injection Velocity	40.0 mm/sec	1.57 in/sec	

Descriptive Properties	Value	Comments
Effective thermal diffusivity	0.732E-7 mÂ²/s	Melt

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