

## Ineos ABS Triax<sup>®</sup> 1120 ABS + Polyamide Blend (Conditioned)

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-Conditioned.php](http://www.lookpolymers.com/polymer_ineos-ABS-Triax-1120-ABS-Polyamide-Blend-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	Melt
	1.06 g/cc	0.0383 lb/in <sup>3</sup>	(DAM)
Water Absorption	6.0 %	6.0 %	(from DAM)
Moisture Absorption at Equilibrium	1.7 %	1.7 %	23 <sup>°</sup> C/50% R.H. (from DAM)
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 <sup>°</sup> C	@Load 11.0 lb, Temperature 500 <sup>°</sup> F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	13 %	13 %	
Tensile Modulus	1.05 GPa	152 ksi	
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@Temperature -30.0 <sup>°</sup> C	@Temperature -22.0 <sup>°</sup> F	
Charpy Impact, Notched	7.40 J/cm <sup>2</sup>	35.2 ft-lb/in <sup>2</sup>	
	1.60 J/cm <sup>2</sup>	7.61 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 <sup>°</sup> C	@Temperature -22.0 <sup>°</sup> F	
Puncture Energy	38.0 J	28.0 ft-lb	Puncture energy +23 <sup>°</sup> C

Mechanical Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	105 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	58.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DAM
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	115 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	63.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DAM
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	2.20 J/g- $\text{Å}^\circ\text{C}$	0.526 BTU/lb- $\text{Å}^\circ\text{F}$	Melt
Thermal Conductivity	0.145 W/m-K	1.01 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	Melt
Deflection Temperature at 1.8 MPa (264 psi)	68.0 $\text{Å}^\circ\text{C}$	154 $\text{Å}^\circ\text{F}$	(from DAM)
Vicat Softening Point	102 $\text{Å}^\circ\text{C}$	216 $\text{Å}^\circ\text{F}$	50 $\text{Å}^\circ\text{C}/\text{h}$ 50N (from DAM)

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	
Dielectric Constant	3.7	3.7	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	6.7	6.7	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	34.0 kV/mm	864 kV/in	
	0.055	0.055	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.10	0.10	
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	260 $\text{Å}^\circ\text{C}$	500 $\text{Å}^\circ\text{F}$	Injection Molding
Mold Temperature	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	Injection Molding
Ejection Temperature	90.0 $\text{Å}^\circ\text{C}$	194 $\text{Å}^\circ\text{F}$	
Injection Velocity	40.0 mm/sec	1.57 in/sec	

Descriptive Properties	Value	Comments
Effective thermal diffusivity	0.732E-7 m <sup>2</sup> /s	Melt

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China