

## Ineos ABS Triax<sup>®</sup> 1315 GF ABS + Polyamide Blend (DAM)

Category : Polymer , Thermoplastic , ABS Polymer , Nylon

Material Notes:

Key Features: Contains Filler Suitable processing methods: Injection molding

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-ABS-Triax-1315-GF-ABS-Polyamide-Blend-DAM.php](http://www.lookpolymers.com/polymer_ineos-ABS-Triax-1315-GF-ABS-Polyamide-Blend-DAM.php)

Physical Properties	Metric	English	Comments
Density	0.995 g/cc	0.0359 lb/in <sup>3</sup>	Melt
	1.17 g/cc	0.0423 lb/in <sup>3</sup>	
Water Absorption	3.8 %	3.8 %	
Moisture Absorption at Equilibrium	1.3 %	1.3 %	23 <sup>°</sup> C/50% R.H.
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0035 cm/cm	0.0035 in/in	
Melt Flow	3.0 g/10 min	3.0 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, Ultimate	82.0 MPa	11900 psi	
Elongation at Break	4.0 %	4.0 %	
Tensile Modulus	4.80 GPa	696 ksi	
Charpy Impact Unnotched	3.60 J/cm <sup>2</sup>	17.1 ft-lb/in <sup>2</sup>	
	3.60 J/cm <sup>2</sup> @Temperature -30.0 <sup>°</sup> C	17.1 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>°</sup> F	
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	
	0.600 J/cm <sup>2</sup> @Temperature -30.0 <sup>°</sup> C	2.86 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>°</sup> F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 $\mu$ m/m- <sup>°</sup> C	22.2 $\mu$ in/in- <sup>°</sup> F	

Thermal Properties	Metric @Temperature 20.0 °C	English @Temperature 68.0 °F	Comments
CTE, linear, Transverse to Flow	120 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 Å°C	66.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 Å°F	
Specific Heat Capacity	1.94 J/g-Å°C	0.464 BTU/lb-Å°F	Melt
Thermal Conductivity	0.155 W/m-K	1.08 BTU-in/hr-ftÅ²- Å°F	Melt
Deflection Temperature at 0.46 MPa (66 psi)	175 Å°C	347 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Å°C	203 Å°F	
Vicat Softening Point	112 Å°C	234 Å°F	50Å°C/h 50N

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	
Dielectric Constant	3.8	3.8	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	4.6	4.6	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.028	0.028	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	0.032	0.032	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

Processing Properties	Metric	English	Comments
Melt Temperature	260 Å°C	500 Å°F	Injection Molding
Mold Temperature	80.0 Å°C	176 Å°F	Injection Molding
Ejection Temperature	105 Å°C	221 Å°F	
Injection Velocity	40.0 mm/sec	1.57 in/sec	

Descriptive Properties	Value	Comments
Effective thermal diffusivity	0.801E-7 m <sup>2</sup> /s	Melt

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