

## Ineos Triax® 3158 ABS + Polyamide Blend (DAM), PA66/ABS Pellets (filled)

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

### Material Notes:

Triax® 3158 is a PA+ABS-Blend and on-line paintable (195°C). It has very high heat resistance, reduced moisture, improved impact strength, and a low coefficient of linear thermal expansion. It is used for the production of molded plastic articles.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-ABS-Triax-3158-ABS-Polyamide-Blend-DAM-PA66ABS-Pellets-filled.php](http://www.lookpolymers.com/polymer_ineos-ABS-Triax-3158-ABS-Polyamide-Blend-DAM-PA66ABS-Pellets-filled.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	ISO 1183
Filler Content	9 %	9 %	Glass fiber / glass bead; ISO 3451-1
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	Test Condition: 150x105x3; 280°C/MT 80°C; 500 bar; acc. ISO 2577
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	Test Condition: 150x105x3; 280°C/MT 80°C; 500 bar; acc. ISO 2577
Melt Flow	10 g/10 min @Load 10.0 kg, Temperature 280 °C	10 g/10 min @Load 22.0 lb, Temperature 536 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	55.0 MPa	7980 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	>= 10 %	>= 10 %	50 mm/min; ISO 527-1,-2
	>= 10 %	>= 10 %	50 mm/min, Nominal; ISO 527-1,-2
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.90 GPa	421 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	50.0 MPa	7250 psi	2 mm/min, @ 3.5% strain; ISO 178
	88.0 MPa	12800 psi	2 mm/min, @ 5% strain; ISO 178
Flexural Modulus	3.00 GPa	435 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	3.81 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180-1A

Mechanical Properties	Metric	English	Comments
	10.0 kJ/m <sup>2</sup>	lb/in <sup>2</sup>	ISO 180-1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Unnotched (ISO)	160 kJ/m <sup>2</sup>	76.1 ft-lb/in <sup>2</sup>	ISO 180-1U
Charpy Impact Unnotched	16.0 J/cm <sup>2</sup>	76.1 ft-lb/in <sup>2</sup>	ISO 179-1eU

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ISO 11359-1,-2; Parallel to Flow
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	132 Â°C	270 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	92.0 Â°C	198 Â°F	ISO 75-1,-2
Vicat Softening Point	160 Â°C	320 Â°F	50Â°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	245 Â°C	473 Â°F	120Â°C/hour; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	3.3	3.3	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.6	3.6	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0077	0.0077	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0148	0.0148	IEC 60250
	@Frequency 1.00e+6	@Frequency 1.00e+6	

Electrical Properties	Hz Metric	Hz English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	280 Â°C	536 Â°F	Injection Molding; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	Injection Molding; ISO 294
Injection Velocity	40.0 mm/sec	1.57 in/sec	Injection Molding; ISO 294

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