

## Ineos ABS Triax<sup>®</sup> KU2-3154 ABS + Polyamide Blend (Conditioned), Injection Molding Grade

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

### Material Notes:

Triax<sup>®</sup> KU2-3154 is mineral reinforced, easy-flowing, injection molding grade, and comes in pellets. It has reduced moisture absorption and very low warpage.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-ABS-Triax-KU2-3154-ABS-Polyamide-Blend-Conditioned-Injection-Molding-Grade.php](http://www.lookpolymers.com/polymer_ineos-ABS-Triax-KU2-3154-ABS-Polyamide-Blend-Conditioned-Injection-Molding-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	DAM; ISO 1183
Filler Content	8 %	8 %	ISO 3451-1
Water Absorption	1.3 %	1.3 %	ISO 62
Water Absorption at Saturation	3.9 %	3.9 %	ISO 62
Linear Mold Shrinkage, Flow	0.0055 cm/cm	0.0055 in/in	Test Condition: 60x60x2; 260 <sup>°</sup> C / MT 80 <sup>°</sup> C; 500 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	Test Condition: 60x60x2; 260 <sup>°</sup> C / MT 80 <sup>°</sup> C; 500 bar; ISO 294-4
Melt Flow	8.5 g/10 min @Load 5.00 kg, Temperature 260 <sup>°</sup> C	8.5 g/10 min @Load 11.0 lb, Temperature 500 <sup>°</sup> F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.0 MPa	4790 psi	5 mm/min; ISO 527-1,-2
Tensile Strength, Yield	39.0 MPa	5660 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	>= 100 %	>= 100 %	5 mm/min; ISO 527-1,-2
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	55.0 MPa	7980 psi	2 mm/min, @ 3.5% strain; ISO 178
	62.0 MPa	8990 psi	2 mm/min; ISO 178
Flexural Modulus	1.80 GPa	261 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup> @Temperature -30.0 <sup>°</sup> C	2.38 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>°</sup> F	ISO 180-1A

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 180-1A
Izod Impact, Unnotched (ISO)	55.0 kJ/m <sup>2</sup>	26.2 ft-lb/in <sup>2</sup>	ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	>= 100 kJ/m <sup>2</sup>	>= 47.6 ft-lb/in <sup>2</sup>	ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	>= 15.0 J/cm <sup>2</sup>	>= 71.4 ft-lb/in <sup>2</sup>	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	ISO 75-1,-2
Vicat Softening Point	95.0 °C	203 °F	50°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	115 °C	239 °F	120°C/hour; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.3	3.3	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	5.0	5.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	0.065	0.065	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	260 Â°C	500 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

## Contact Songhan Plastic Technology Co.,Ltd.

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