

Ineos ABS Triax® KU2-3154 ABS + Polyamide Blend (DAM), Injection Molding Grade

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

Material Notes:

Triax® 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-DAM-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	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°C / MT 80°C; 500 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	Test Condition: 60x60x2; 260°C / MT 80°C; 500 bar; ISO 294-4
Melt Flow	8.5 g/10 min @Load 5.00 kg, Temperature 260 °C	8.5 g/10 min @Load 11.0 lb, Temperature 500 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	5 mm/min; ISO 527-1,-2
Tensile Strength, Yield	55.0 MPa	7980 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	35 %	35 %	5 mm/min; ISO 527-1,-2
	35 %	35 %	50 mm/min, Nominal; ISO 527-1,-2
Elongation at Yield	2.9 %	2.9 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.70 GPa	392 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	75.0 MPa	10900 psi	2 mm/min, @ 3.5% strain; ISO 178
	80.0 MPa	11600 psi	2 mm/min; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180-1A

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180-1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	100 kJ/m ²	47.6 ft-lb/in ²	ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	15.0 J/cm ²	71.4 ft-lb/in ²	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 µm/m-°C	36.1 µin/in-°F	ISO 11359-1,-2; Parallel to Flow
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Deflection Temperature at 0.46 MPa (66 psi)	97.0 °C	207 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	83.0 °C	181 °F	ISO 75-1,-2
Vicat Softening Point	105 °C	221 °F	50°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	130 °C	266 °F	120°C/hour; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	0.10 %	0.10 %	

Thermal Properties	Metric	English	Comments
	@Temperature 80.0 °C, Time 3600 sec	@Temperature 176 °F, Time 1.00 hour	Post-Test Condition: 60x60x2; ISO 294-4
Shrinkage, TD	0.10 % @Temperature 80.0 °C, Time 3600 sec	0.10 % @Temperature 176 °F, Time 1.00 hour	Post-Test Condition: 60x60x2; ISO 294-4

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	3.1 @Frequency 1.00e+6 Hz	3.1 @Frequency 1.00e+6 Hz	IEC 60250
	3.4 @Frequency 100 Hz	3.4 @Frequency 100 Hz	IEC 60250
Dielectric Strength	40.0 kV/mm @Thickness 1.00 mm	1020 kV/in @Thickness 0.0394 in	IEC 60243-1
	0.015 @Frequency 100 Hz	0.015 @Frequency 100 Hz	IEC 60250
Dissipation Factor	0.015 @Frequency 1.00e+6 Hz	0.015 @Frequency 1.00e+6 Hz	IEC 60250
	600 V	600 V	Solution A, Rating; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	Injection Molding; ISO 294
Mold Temperature	80.0 °C	176 °F	Injection Molding; ISO 294
Injection Velocity	40.0 mm/sec	1.57 in/sec	Injection Molding; ISO 294

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