

Ineos ABS Triax® KU2-3154 ABS + Nylon 6

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS)/Nylon Blend , Nylon , Nylon 6

Material Notes:

Mineral reinforced, easy flowing, reduced moisture absorption, very low warpage, injection molding, pellets.,Property data per ISO test methods.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Triax-KU2-3154-ABS-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	dry
Water Absorption	3.9 %	3.9 %	dry
Moisture Absorption at Equilibrium	1.3 %	1.3 %	dry
Melt Flow	9.0 g/10 min @Load 5.00 kg, Temperature 260 °C	9.0 g/10 min @Load 11.0 lb, Temperature 500 °F	Calculated using room temperature density

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	39.0 MPa	5660 psi	conditioned
	55.0 MPa	7980 psi	dry
Elongation at Break	35 %	35 %	Nominal, dry
Elongation at Yield	2.9 %	2.9 %	dry
	4.0 %	4.0 %	conditioned
Tensile Modulus	2.00 GPa	290 ksi	conditioned
	2.70 GPa	392 ksi	dry
Charpy Impact Unnotched	15.0 J/cm ²	71.4 ft-lb/in ²	dry
	15.0 J/cm ²	71.4 ft-lb/in ²	conditioned
	6.00 J/cm ² @Temperature -30.0 °C	28.6 ft-lb/in ² @Temperature -22.0 °F	conditioned
	10.0 J/cm ² @Temperature -30.0 °C	47.6 ft-lb/in ² @Temperature -22.0 °F	dry
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	conditioned

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	0.650 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	0.361 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	dry, parallel
CTE, linear, Transverse to Flow	1.00 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	0.556 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	dry
Deflection Temperature at 0.46 MPa (66 psi)	97.0 $^{\circ}\text{C}$	207 $^{\circ}\text{F}$	dry
Deflection Temperature at 1.8 MPa (264 psi)	83.0 $^{\circ}\text{C}$	181 $^{\circ}\text{F}$	dry
Vicat Softening Point	105 $^{\circ}\text{C}$	221 $^{\circ}\text{F}$	dry
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	dry

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	conditioned
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	dry
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	conditioned
Dielectric Constant	3.1 @Frequency 1e+6 Hz	3.1 @Frequency 1e+6 Hz	Dry
	3.3 @Frequency 1e+6 Hz	3.3 @Frequency 1e+6 Hz	conditioned
	3.4 @Frequency 100 Hz	3.4 @Frequency 100 Hz	Dry
	5.0 @Frequency 100 Hz	5.0 @Frequency 100 Hz	conditioned
Dielectric Strength	40.0 kV/mm	1020 kV/in	dry
	40.0 kV/mm	1020 kV/in	conditioned
Dissipation Factor	0.015 @Frequency 100 Hz	0.015 @Frequency 100 Hz	dry

Electrical Properties	0.015 Metric	0.015 English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.040	0.040	conditioned
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.065	0.065	conditioned
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	dry

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