Ineos ABS TriaxÂ® KU 2-3050 ABS + Polyamide Blend (DAM)

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

Material Notes:

Key Features:UnfilledHigh impact or high impact modifiedLight stabilized or stable to lightHeat stabilized or stable to heatSuitable processing methods:Injection molding

Order this product through the following link:
http://www.lookpolymers.com/polymer_Ineos-ABS-Triax-KU-2-3050-ABS-Polyamide-Blend-DAM.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/inÂ³	Melt
	1.06 g/cc	0.0383 lb/inÂ³	
Water Absorption	6.0 %	6.0 %	
Moisture Absorption at Equilibrium	1.7 %	1.7 %	23Â°C/50% R.H.
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	
Melt Flow	7.0 g/10 min @Load 5.00 kg, Temperature 260 Â°C	7.0 g/10 min @Load 11.0 lb, Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	3.2 %	3.2 %	
Tensile Modulus	1.90 GPa	276 ksi	
Charpy Impact Unnotched	NB	NB	
	NB @Temperature -30.0 Â°C	NB @Temperature -22.0 Â°F	
Charpy Impact, Notched	7.40 J/cmÂ²	35.2 ft-lb/inÂ²	
	1.60 J/cmÂ² @Temperature -30.0 Â°C	7.61 ft-lb/inÂ² @Temperature -22.0 Â°F	
Puncture Energy	40.0 J	29.5 ft-lb	Puncture energy +23Â°C

Mechanical Properties	Metric	English	Comments
	40.0 J	29.5 ft-lb	Impact Energy -30Â°C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	105 Âµm/m-Â°C @Temperature 20.0 Â°C	58.3 Âµin/in-Â°F @Temperature 68.0 Â°F	
CTE, linear, Transverse to Flow	115 Âµm/m-Â°C @Temperature 20.0 Â°C	63.9 Âµin/in-Â°F @Temperature 68.0 Â°F	
Specific Heat Capacity	2.20 J/g-Â°C	0.526 BTU/lb-Â°F	Melt
Thermal Conductivity	0.145 W/m-K	1.01 BTU-in/hr-ftÂ²-Â°F	Melt
Deflection Temperature at 0.46 MPa (66 psi)	91.0 Â°C	196 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	68.0 Â°C	154 Â°F	
Vicat Softening Point	102 Â°C	216 Â°F	50Â°C/h 50N

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	3.6 @Frequency 1e+6 Hz	3.6 @Frequency 1e+6 Hz	
	4.3 @Frequency 100 Hz	4.3 @Frequency 100 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	
Dissipation Factor	0.029 @Frequency 100 Hz	0.029 @Frequency 100 Hz	
	0.030 @Frequency 1e+6 Hz	0.030 @Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

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

Processing Properties	Metric	English	Comments
Mold Temperature	80.0 Â°C	176 Â°F	Injection Molding
Ejection Temperature	90.0 Â°C	194 Â°F	
Injection Velocity	40.0 mm/sec	1.57 in/sec	

Descriptive Properties	Value	Comments
Effective thermal diffusivity	0.732E-7 mÂ²/s	Melt

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