

## Unitika A1030FR PA6, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

### Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Unitika-A1030FR-PA6-Conditioned.php](http://www.lookpolymers.com/polymer_Unitika-A1030FR-PA6-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.8 % @Time 86400 sec	1.8 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.8 %	2.8 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.010 cm/cm @Thickness 3.20 mm	0.010 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.013 cm/cm @Thickness 3.20 mm	0.013 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ISO 2039
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527-1/-2
Elongation at Break	>= 200 %	>= 200 %	ISO 527-1/-2
Elongation at Yield	24 %	24 %	ISO 527-1/-2
Tensile Modulus	0.900 GPa	131 ksi	ISO 527-1/-2
Flexural Strength	33.0 MPa	4790 psi	ISO 178
Flexural Modulus	0.900 GPa	131 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179-1
Charpy Impact, Notched	4.30 J/cm <sup>2</sup>	20.5 ft-lb/in <sup>2</sup>	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	96.0 μm/m-°C	53.3 μin/in-°F	ISO 11359-2

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	8.00e+11 ohm-cm Metric	8.00e+11 ohm-cm English	IEC 60093 Comments
Dielectric Constant	3.7 @Frequency 1.00e+6 Hz	3.7 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	33.0 kV/mm @Thickness 1.00 mm	838 kV/in @Thickness 0.0394 in	IEC 60243-1
Dissipation Factor	0.080 @Frequency 1.00e+6 Hz	0.080 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

## Contact Songhan Plastic Technology Co.,Ltd.

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