

## Unitika AXG-1500-300 Dry

Category : Polymer , Thermoplastic , Polyarylate

### Material Notes:

Characteristics: Glass-reinforced grades of the AX1500 resin, excellent in heat and chemical resistancesFavorable rigidity and dimensional accuracyInformation provided by Unitika Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Unitika-AXG-1500-300-Dry.php](http://www.lookpolymers.com/polymer_Unitika-AXG-1500-300-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.60 % @Thickness 3.17 mm, Time 86400 sec	0.60 % @Thickness 0.125 in, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0035 cm/cm @Thickness 3.00 mm	0.0035 in/in @Thickness 0.118 in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm @Thickness 3.00 mm	0.0070 in/in @Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	143 MPa	20700 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	211 MPa	30600 psi	ASTM D790
Flexural Modulus	8.20 GPa	1190 ksi	ASTM D790
Compressive Strength	147 MPa	21300 psi	ASTM D695
Izod Impact, Notched	0.760 J/cm @Thickness 3.17 mm	1.42 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	25.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	179 $^\circ\text{C}$	354 $^\circ\text{F}$	ASTM D648

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Middle Barrel Temperature	240 - 260 °C	464 - 500 °F	
Front Barrel Temperature	250 - 270 °C	482 - 518 °F	
Nozzle Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	80.0 - 120 °C	176 - 248 °F	actual surface temp
Drying Temperature	100 °C	212 °F	
Dry Time	10.0 - 24.0 hour	10.0 - 24.0 hour	
Back Pressure	0.490 - 1.47 MPa	71.1 - 213 psi	gage pressure

## Contact Songhan Plastic Technology Co.,Ltd.

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