

Unitika AX-1500 Dry

Category : Polymer , Thermoplastic , Polyarylate

Material Notes:

AX series resins are opaque polymer alloys with a high deflection temperature under load without reinforcement and a chemical resistance as high as those of crystalline resins. They are excellent in moldability and provide molded products fewer in the number of sink marks, warps, and runoffs. Characteristics: Nonreinforced heat resistance: Deflection temperature under load without reinforcement: 1.8 MPa at 150°C Chemical resistance: As high as those of polyamide resins, except alkali resistance Adhesiveness: Chemical resistance and adhesiveness as high as those of crystalline resins Lubrication: As high as those of polyamide resins Molding accuracy: Fewer in the number of sink marks and warps, and lower (less than 1/3) in water absorption than polyamide resins Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-AX-1500-Dry.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
Water Absorption	0.75 % @Thickness 3.17 mm, Time 86400 sec	0.75 % @Thickness 0.125 in, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.010 cm/cm @Thickness 3.00 mm	0.010 in/in @Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	72.0 MPa	10400 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Strength	103 MPa	14900 psi	ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
Izod Impact, Notched	0.780 J/cm @Thickness 3.17 mm	1.46 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	77.0 µm/m-°C	42.8 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	150 °C	302 °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	70.0 - 90.0 °C	158 - 194 °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

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