

Unitika AX-1500 Conditioned

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-Conditioned.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Flexural Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	1.20 GPa	174 ksi	ASTM D790
Izod Impact, Notched	1.96 J/cm @Thickness 3.17 mm	3.67 ft-lb/in @Thickness 0.125 in	ASTM D256

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149
Dissipation Factor	0.040 @Frequency 1.00e+6 Hz	0.040 @Frequency 1.00e+6 Hz	ASTM D150
Comparative Tracking Index	>= 600 V	>= 600 V	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 - 230 °C	410 - 446 °F	
Middle Barrel Temperature	240 - 260 °C	464 - 500 °F	

Front Barrel Temperature Processing Properties	250 - 270 °C Metric	482 - 518 °F English	Comments
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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