

Unitika AXF-1500-05 Dry

Category : Polymer , Thermoplastic , Polyarylate

Material Notes:

Characteristics: Lubricant grade of AX1500, excellent in heat and chemical resistancesInformation provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-AXF-1500-05-Dry.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Absorption	0.75 %	0.75 %	ASTM D570
	@Thickness 3.17 mm, Time 86400 sec	@Thickness 0.125 in, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	67.0 MPa	9720 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Flexural Strength	100 MPa	14500 psi	ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
Compressive Strength	82.0 MPa	11900 psi	ASTM D695
Izod Impact, Notched	0.540 J/cm	1.01 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear	74.0 µm/m-°C	41.1 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	150 °C	302 °F	ASTM D648

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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