

## Unitika AXF-1500-05 Conditioned

Category : Polymer , Thermoplastic , Polyarylate

### Material Notes:

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Unitika-AXF-1500-05-Conditioned.php](http://www.lookpolymers.com/polymer_Unitika-AXF-1500-05-Conditioned.php)

| Mechanical Properties     | Metric                          | English                              | Comments  |
|---------------------------|---------------------------------|--------------------------------------|-----------|
| Tensile Strength at Break | 54.0 MPa                        | 7830 psi                             | ASTM D638 |
| Elongation at Break       | 22 %                            | 22 %                                 | ASTM D638 |
| Flexural Strength         | 78.0 MPa                        | 11300 psi                            | ASTM D790 |
| Flexural Modulus          | 1.10 GPa                        | 160 ksi                              | ASTM D790 |
| Izod Impact, Notched      | 1.47 J/cm<br>@Thickness 3.17 mm | 2.75 ft-lb/in<br>@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<br>@Frequency 1.00e+6 Hz   | 3.6<br>@Frequency 1.00e+6 Hz   | ASTM D150 |
| Dielectric Strength   | 25.0 kV/mm                     | 635 kV/in                      | ASTM D149 |
| Dissipation Factor    | 0.040<br>@Frequency 1.00e+6 Hz | 0.040<br>@Frequency 1.00e+6 Hz | ASTM D150 |
| Arc Resistance        | 80 sec                         | 80 sec                         | ASTM D495 |

| 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  | 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       |                     |

| Processing Properties | Metric           | English          | Comments      |
|-----------------------|------------------|------------------|---------------|
| 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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