

## Unitika AX-1500W Dry

Category : Polymer , Thermoplastic , Polyarylate

### Material Notes:

Characteristics: A resin succeeding the advantages of AX1500 resin and containing titanium oxide at high concentration. Improved drastically in light reflection and blocking properties, aimed at display devices Chemical resistance Information provided by Unitika Ltd.

Order this product through the following link:

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

| Physical Properties         | Metric                                          | English                                          | Comments  |
|-----------------------------|-------------------------------------------------|--------------------------------------------------|-----------|
| Density                     | 1.37 g/cc                                       | 0.0495 lb/in <sup>3</sup>                        | ASTM D792 |
| Water Absorption            | 0.72 %<br>@Thickness 3.17 mm,<br>Time 86400 sec | 0.72 %<br>@Thickness 0.125 in,<br>Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0090 cm/cm<br>@Thickness 3.00 mm              | 0.0090 in/in<br>@Thickness 0.118 in              |           |

| Mechanical Properties     | Metric                           | English                               | Comments  |
|---------------------------|----------------------------------|---------------------------------------|-----------|
| Hardness, Rockwell R      | 120                              | 120                                   | ASTM D785 |
| Tensile Strength at Break | 79.0 MPa                         | 11500 psi                             | ASTM D638 |
| Elongation at Break       | 4.7 %                            | 4.7 %                                 | ASTM D638 |
| Flexural Strength         | 125 MPa                          | 18100 psi                             | ASTM D790 |
| Flexural Modulus          | 3.50 GPa                         | 508 ksi                               | ASTM D790 |
| Izod Impact, Notched      | 0.430 J/cm<br>@Thickness 3.17 mm | 0.806 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric                                           | English                                            | Comments  |
|---------------------------------------------|--------------------------------------------------|----------------------------------------------------|-----------|
| CTE, linear                                 | 73.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ | 40.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 150 $^{\circ}\text{C}$                           | 302 $^{\circ}\text{F}$                             | ASTM D648 |

| Processing Properties     | Metric                       | English                      | Comments |
|---------------------------|------------------------------|------------------------------|----------|
| Rear Barrel Temperature   | 200 - 220 $^{\circ}\text{C}$ | 392 - 428 $^{\circ}\text{F}$ |          |
| Middle Barrel Temperature | 220 - 240 $^{\circ}\text{C}$ | 428 - 464 $^{\circ}\text{F}$ |          |
| Front Barrel Temperature  | 230 - 250 $^{\circ}\text{C}$ | 446 - 482 $^{\circ}\text{F}$ |          |

| Processing Properties | Metric           | English          | Comments            |
|-----------------------|------------------|------------------|---------------------|
| Mold Temperature      | 40.0 - 60.0 °C   | 104 - 140 °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.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China