

## E-Polymers TEKAMID® TB120ST Super Tough PA6, DAM

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

### Material Notes:

Super Toughness Information provided by E-Polymers Co. Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_E-Polymers-TEKAMID-TB120ST-Super-Tough-PA6-DAM.php](http://www.lookpolymers.com/polymer_E-Polymers-TEKAMID-TB120ST-Super-Tough-PA6-DAM.php)

| Physical Properties   | Metric      | English                   | Comments              |
|-----------------------|-------------|---------------------------|-----------------------|
| Density               | 1.07 g/cc   | 0.0387 lb/in <sup>3</sup> | ASTM D792             |
| Water Absorption      | 0.60 %      | 0.60 %                    | 23°C/24 hr; ASTM D570 |
| Linear Mold Shrinkage | 0.013 cm/cm | 0.013 in/in               |                       |

| Mechanical Properties   | Metric                   | English                   | Comments  |
|-------------------------|--------------------------|---------------------------|-----------|
| Hardness, Rockwell R    | 105                      | 105                       | ASTM D786 |
| Tensile Strength, Yield | 48.0 MPa                 | 6960 psi                  | ASTM D638 |
| Elongation at Break     | 150 %                    | 150 %                     | ASTM D638 |
| Flexural Yield Strength | 45.0 MPa                 | 6530 psi                  | ASTM D790 |
| Flexural Modulus        | 1.40 GPa                 | 203 ksi                   | ASTM D790 |
| Izod Impact, Notched    | 9.00 J/cm                | 16.9 ft-lb/in             | ASTM D256 |
| Izod Impact, Unnotched  | NB<br>@Thickness 3.20 mm | NB<br>@Thickness 0.126 in | ASTM D256 |

| Thermal Properties                          | Metric                               | English                                | Comments   |
|---|--------------------------------------|--|------------|
| CTE, linear                                 | 80.0 µm/m-°C<br>@Temperature 20.0 °C | 44.4 µin/in-°F<br>@Temperature 68.0 °F | ASTM D696  |
| Melting Point                               | 220 °C                               | 428 °F                                 | ASTM D2133 |
| Deflection Temperature at 0.46 MPa (66 psi) | 135 °C                               | 275 °F                                 | ASTM D648  |
| Deflection Temperature at 1.8 MPa (264 psi) | 60.0 °C                              | 140 °F                                 | ASTM D648  |
| Flammability, UL94                          | HB                                   | HB                                     |            |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Arc Resistance<br>Electrical Properties | 180 sec<br>Metric | 180 sec<br>English | Tungsten electrode; ASTM D495<br>Comments |
|---|-------------------|--------------------|---|
| Processing Properties                   | Metric            | English            | Comments                                  |
| Processing Temperature                  | 250 - 270 °C      | 482 - 518 °F       |   |
| Mold Temperature                        | 40.0 - 60.0 °C    | 104 - 140 °F       |   |

## Contact Songhan Plastic Technology Co.,Ltd.

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