

## Victrex® HT™ P45 Polyetherketone

Category : Polymer , Thermoplastic , Polyketone

### Material Notes:

Product Description: High performance thermoplastic material, unreinforced PolyEtherKetone (PEK), semi crystalline, coarse powder for extrusion compounding, low flow, FDA food contact compliant, colour natural. Information provided by Victrex

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Victrex-HT-P45-Polyetherketone.php](http://www.lookpolymers.com/polymer_Victrex-HT-P45-Polyetherketone.php)

| Physical Properties | Metric                           | English                          | Comments              |
|---------------------|----------------------------------|----------------------------------|-----------------------|
| Density             | 1.30 g/cc                        | 0.0470 lb/in <sup>3</sup>        | Crystalline; ISO 1183 |
| Viscosity           | 350000 cP<br>@Temperature 400 °C | 350000 cP<br>@Temperature 752 °F | Melt; ISO 11443       |

| Mechanical Properties        | Metric                 | English                    | Comments  |
|------------------------------|------------------------|----------------------------|-----------|
| Tensile Strength, Yield      | 100 MPa                | 14500 psi                  | ISO 527   |
| Elongation at Break          | 15 %                   | 15 %                       | ISO 527   |
| Tensile Modulus              | 4.20 GPa               | 609 ksi                    | ISO 527   |
| Flexural Strength            | 170 MPa                | 24700 psi                  | ISO 178   |
| Flexural Modulus             | 4.20 GPa               | 609 ksi                    | ISO 178   |
| Izod Impact, Notched (ISO)   | 6.50 kJ/m <sup>2</sup> | 3.09 ft-lb/in <sup>2</sup> | ISO 180/A |
| Izod Impact, Unnotched (ISO) | NB                     | NB                         | ISO 180/U |

| Thermal Properties        | Metric | English | Comments         |
|---------------------------|--------|---------|------------------|
| Melting Point             | 373 °C | 703 °F  | ISO 11357        |
| Glass Transition Temp, Tg | 152 °C | 306 °F  | Onset; ISO 11357 |
|                           | 160 °C | 320 °F  | Midpoint         |

| Processing Properties  | Metric                           | English                          | Comments |
|------------------------|----------------------------------|----------------------------------|----------|
| Processing Temperature | 400 - 420 °C                     | 752 - 788 °F                     |          |
| Dry Time               | 3.00 hour<br>@Temperature 150 °C | 3.00 hour<br>@Temperature 302 °F |          |
|                        | 5.00 hour                        | 5.00 hour                        |          |

| Processing Properties  | @Temperature 120 °C<br>Metric | @Temperature 248 °F<br>English | Comments |
|------------------------|-------------------------------|--------------------------------|----------|
| Descriptive Properties |                               | Value                          | Comments |
| Color                  |                               | Natural                        |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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