

## DuPont Performance Polymers Sorona® 3301V BK001 Polytrimethylene Terephthalate (PTT) (Unverified Data\*\*)&

Category : Polymer , Thermoplastic , Polyester, TP , Polytrimethylene Terephthalate (PTT)

### Material Notes:

Unreinforced Renewably Sourced Polytrimethylene Terephthalate Sorona 3301V BK001 is an unreinforced black polytrimethylene terephthalate resin containing 35% renewably sourced ingredients by weight developed for applications requiring high surface gloss. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Sorona-3301V-BK001-Polytrimethylene-Terephthalate-PTT-Unverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Sorona-3301V-BK001-Polytrimethylene-Terephthalate-PTT-Unverified-Data.php)

| Physical Properties               | Metric      | English                   | Comments       |
|-----------------------------------|-------------|---------------------------|----------------|
| Density                           | 1.32 g/cc   | 0.0477 lb/in <sup>3</sup> | ISO 1183       |
| Linear Mold Shrinkage, Flow       | 0.016 cm/cm | 0.016 in/in               | ISO 294-4 2577 |
| Linear Mold Shrinkage, Transverse | 0.016 cm/cm | 0.016 in/in               | ISO 294-4 2577 |

| Mechanical Properties      | Metric                  | English                    | Comments              |
|----------------------------|-------------------------|----------------------------|-----------------------|
| Tensile Strength, Yield    | 60.0 MPa                | 8700 psi                   | ISO 527-1/-2          |
| Elongation at Break        | 15 %                    | 15 %                       | Nominal; ISO 527-1/-2 |
| Elongation at Yield        | 6.0 %                   | 6.0 %                      | ISO 527-1/-2          |
| Tensile Modulus            | 2.40 GPa                | 348 ksi                    | ISO 527-1/-2          |
| Flexural Modulus           | 2.40 GPa                | 348 ksi                    | ISO 178               |
| Izod Impact, Notched (ISO) | 4.50 kJ/m <sup>2</sup>  | 2.14 ft-lb/in <sup>2</sup> | ISO 180/1A            |
| Charpy Impact, Notched     | 0.500 J/cm <sup>2</sup> | 2.38 ft-lb/in <sup>2</sup> | ISO 179/1eA           |

| Thermal Properties                          | Metric             | English              | Comments                 |
|---|--------------------|----------------------|--------------------------|
| Melting Point                               | 228 °C             | 442 °F               | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 150 °C             | 302 °F               | ISO 75-1/-2              |
| Deflection Temperature at 1.8 MPa (264 psi) | 60.0 °C            | 140 °F               | ISO 75-1/-2              |
| Flammability, UL94                          | HB                 | HB                   | IEC 60695-11-10          |
|   | @Thickness 1.50 mm | @Thickness 0.0591 in |                          |
|   | HB                 | HB                   | IEC 60695-11-10          |

| Thermal Properties         | @Thickness 0.800 mm<br>Metric | @Thickness 0.0315 in<br>English | Comments  |
|----------------------------|-------------------------------|---------------------------------|-----------|
| Electrical Properties      | Metric                        | English                         | Comments  |
| Comparative Tracking Index | 600 V                         | 600 V                           | IEC 60112 |

| Descriptive Properties | Value                     | Comments  |
|------------------------|---------------------------|-----------|
| Part Marking Code      | >PTT<                     | ISO 11469 |
| Processing             | Injection Moulding        |           |
| Regional Availability  | Asia Pacific              |           |
|                        | Europe                    |           |
|                        | Global                    |           |
|                        | Near East/Africa          |           |
|                        | North America             |           |
|                        | South and Central America |           |
| Resin Identification   | PTT                       |           |

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