POLY HI SOLIDUR WORLDWIDE

TECHNICAL INFORMATION

TIVAR® 1000 UV

Physical Properties

| Property | Method | SI Unit | SI Value | English Unit | English Value |
|-----------------------------|-------------|------------------------------|-------------------|------------------------|-------------------|
| Density | ASTM D-792 | kg/m ³ | 953 | lbs/ft ³ | 59.44 |
| Yield Point | ASTM D-638 | MPa | 20 | psi | 2900 |
| Elongation at Yield | ASTM D-638 | % | 15 | % | 15 |
| Tensile Break | ASTM D-638 | MPa | 45 | psi | 6527 |
| Elongation at Break | ASTM D-638 | % | 290 | % | 290 |
| Tensile Modulus | ASTM D-638 | MPa | 913 | psi | 117402 |
| Flexural Modulus | ASTM D-790 | MPa | 723 | psi | 104864 |
| Izod Impact | ASTM D-4020 | kJ/m ² | 113 | ft-lbs/in ² | 54 |
| Tensile Impact | DIN 53448 | kJ/m ² | 3096 | ft-lbs/in ² | 1474 |
| Sand Wheel Wear | ASTM G-65, | T-1000=100 | 113 | T-1000=100 | 113 |
| Hardness | ASTM D-2240 | Shore D | 69 | Shore D | 69 |
| Static Friction | ASTM D-1894 | Unitless | 0.18 | Unitless | 0.18 |
| Dynamic Friction | ASTM D-1894 | Unitless | 0.15 | Unitless | 0.15 |
| Coefficient of Thermal Exp. | ASTM D-696 | ⁰ C ⁻¹ | 0.00018 | °F ⁻¹ | 0.00011 |
| Melt Point | ASTM D-3417 | °C | 137-143 | °F | 278-289 |
| Compressive Modulus | ASTM D-695 | MPa | 536 | psi | 77750 |
| Compressive Deformation | ASTM D-621 | % at 454.5 kg | '6-8 | % at 1000 psi | 6-8 |
| Volume Resistivity | ASTM D-257 | Ohm-cm | >10 ¹⁵ | Ohm-cm | >10 ¹⁵ |
| Surface Resistivity | ASTM D-257 | Ohm | >10 ¹⁵ | Ohm | >10 ¹⁵ |
| Water Absorption | ASTM D-570 | % | nil | % | nil |

Values are averages and are not specifications.

IMPORTANT: Most plastics will ignite and sustain flame under certain conditions. Caution is urged where any material may be exposed to open flame or heat-generating equipment Use Material Safety Data Sheets to determine auto-ignition and flashpoint temperatures of materials, or consult Poly Hi Solidur, Fort Wayne, Indiana if additional information is needed. The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Poly Hi Solidur, Inc. shall not be liable and the customer assumes all risk and liability of any use or handling of any material beyond Poly Hi Solidur's direct control. THE SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.

Telephone (219) 479-4100 FAX: (219) 478-1074

^{**} ASTM test methods are under current procedures.