



"Rapid Prototyping  
Specialists"

## Data for Peridot Urethane Materials

<b>Description</b>	<b>Urethane # 6461</b>	<b>Urethane # 4270</b>	<b>Urethane # 6432</b>	<b>Urethane # 5030</b>
<b>Natural Cured Color</b>	<b>Black</b>	<b>Lt. Amber</b>	<b>White</b>	<b>Cloudy White</b>
<b>Tensile Strength</b>	<b>7,800 psi</b>	<b>10,400 psi</b>	<b>5,900 psi</b>	<b>4,600 psi</b>
<b>Elongation at Break</b>	<b>10.00%</b>	<b>6.60%</b>	<b>27.00%</b>	<b>32.00%</b>
<b>Tensile Modulus</b>	<b>224,000 psi</b>	<b>N/A</b>	<b>N/A</b>	<b>164,000 psi</b>
<b>Compressive Strength</b>	<b>32,000 psi</b>	<b>N/A</b>	<b>7,500 psi</b>	<b>N/A</b>
<b>Flexural Strength</b>	<b>11,700 psi</b>	<b>13,900 psi</b>	<b>8,600 psi</b>	<b>5,750 psi</b>
<b>Flexural Modulus</b>	<b>246,000 psi</b>	<b>405,000 psi</b>	<b>234,000 psi</b>	<b>186,000 psi</b>
<b>Hardness (Shore D)</b>	<b>81</b>	<b>84</b>	<b>73</b>	<b>77</b>
<b>Izod Impact - Notched</b>	<b>0.7 ft-lb/in</b>	<b>1.5 ft-lb/in</b>	<b>0.6 ft-lb/in</b>	<b>0.36 ft-lb/in</b>
<b>Izod Impact - Unnotched</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>1.50 ft-lb/in</b>
<b>Deflection Temperature @ 66psi</b> <i>* with thermal post-cure</i>	<b>309 Degrees F*</b>	<b>178 Degrees F</b>	<b>175 Degrees F</b>	<b>185 Degrees F</b>
<b>Tg by DMA, E"</b>	<b>305 Degrees F*</b>	<b>N/A</b>	<b>160 Degrees F</b>	<b>N/A</b>
<b>Coef. of Thermal Expansion</b> <i>-22 to 86 F, in/in/F</i>	<b>60 x 10 e-6</b>	<b>N/A</b>	<b>60 x 10 e-6</b>	<b>N/A</b>
<b>Density</b>	<b>73 lb/cu ft</b>	<b>N/A</b>	<b>71 lb/cu ft</b>	<b>N/A</b>
<b>Specific Gravity</b>	<b>1.13</b>	<b>1.13</b>	<b>1.08</b>	<b>1.08</b>
<b>Moisture Absorbtion (% weight)</b>	<b>2.30%</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<b>Height Change Due to Moisture Absorption</b>	<b>0.30%</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

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PERIDOT, Inc.  
14508 Bruick Drive  
Hoagland, IN 46745  
PH: 260.639.6500  
FX: 260.639.6503