Engineered Elastomer Solutions
... to help you win!

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**PHYSICAL PROPERTIES OF MDI PENTATHANE®**

Pentathane® is Molded Dimensions’ name for its Polyurethane formulations. It has five outstanding properties:
- Wide range of hardnesses
- High load-bearing
- High abrasion resistance
- Low coefficients of friction
- Good resistance to gas, oil, alkali and acid attack

Pentathane® formulations are designed to meet your most demanding applications. Additives such as Teflon, Silicone and others can be used to achieve application-specific formulations.

Features of MDI's Pentathane® 6300 Polyester include:
- High abrasion resistance
- High tear strength
- High solvent, fuel and oil resistance
- High dry heat resistance to 200°F
- High electrical conductivity

Features of our Pentathane® 6400 Polyether include:
- Reduced frictional properties
- Improved low-temperature flexibility
- Extended flex life
- Increased hydrolytic stability
- Higher rebound

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### TABLE 1: PHYSICAL PROPERTIES OF MDI PENTATHANE®

<table>
<thead>
<tr>
<th>COMPOUND</th>
<th>40A ester</th>
<th>50A ester</th>
<th>60A ester</th>
<th>70A ester</th>
<th>80A ester</th>
<th>85A ether</th>
<th>90A ester</th>
<th>90A ether</th>
<th>50D ester</th>
<th>50D ether</th>
<th>60D ester</th>
<th>60D ether</th>
<th>75D ether</th>
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<tbody>
<tr>
<td>Hardness D-2240</td>
<td>A 40</td>
<td>A 50</td>
<td>A 60</td>
<td>A 70</td>
<td>A 80</td>
<td>A 85</td>
<td>A 90</td>
<td>A 90</td>
<td>D 50</td>
<td>D 50</td>
<td>D 60</td>
<td>D 60</td>
<td>D 75</td>
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<tr>
<td>Modulus D-412 PSI</td>
<td>100% 180</td>
<td>210</td>
<td>260</td>
<td>310</td>
<td>580</td>
<td>700</td>
<td>1200</td>
<td>1015</td>
<td>2030</td>
<td>1100</td>
<td>2200</td>
<td>1800</td>
<td>4200</td>
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<tr>
<td></td>
<td>300% 350</td>
<td>380</td>
<td>550</td>
<td>500</td>
<td>905</td>
<td>1200</td>
<td>1200</td>
<td>1015</td>
<td>2030</td>
<td>1100</td>
<td>2200</td>
<td>1800</td>
<td>4200</td>
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<tr>
<td>Tensile D-412 PSI</td>
<td>2800</td>
<td>2980</td>
<td>3300</td>
<td>5400</td>
<td>6100</td>
<td>4680</td>
<td>6600</td>
<td>5500</td>
<td>6600</td>
<td>5500</td>
<td>8600</td>
<td>8700</td>
<td>9500</td>
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<tr>
<td>Elongation % D-412</td>
<td>550</td>
<td>560</td>
<td>445</td>
<td>650</td>
<td>660</td>
<td>580</td>
<td>545</td>
<td>380</td>
<td>380</td>
<td>380</td>
<td>400</td>
<td>280</td>
<td>180</td>
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<tr>
<td>Comp Set A 70 Hr 150°F</td>
<td>0.8</td>
<td>3.5</td>
<td>3.2</td>
<td>3.1</td>
<td>2.8</td>
<td>3.5</td>
<td>3.4</td>
<td>2.8</td>
<td>3.2</td>
<td>3.2</td>
<td>2.8</td>
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<td>Split Tear PLD D-470</td>
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<td>11</td>
<td>17</td>
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<td>225</td>
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<td>320</td>
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<td>140</td>
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<td>Bashore Rebound % D-495</td>
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<td>32</td>
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<td>45</td>
<td>63</td>
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</table>

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Molded Dimensions

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