# HDPE Plastic Sheet Goods

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>ASTM SPEC</th>
<th>UNIT</th>
<th>HDPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>D 792</td>
<td>****</td>
<td>0.96</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>D570</td>
<td>%</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>Taber CS 17</td>
<td>mg/1000</td>
<td>****</td>
</tr>
<tr>
<td>Oxygen Index</td>
<td>D2863</td>
<td>%</td>
<td>****</td>
</tr>
<tr>
<td>Flammability</td>
<td>UL 94</td>
<td>****</td>
<td>N.R.</td>
</tr>
<tr>
<td>Coefficient of Friction</td>
<td>C1894</td>
<td>Static</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td>C1894</td>
<td>Dynamic</td>
<td>0.2</td>
</tr>
<tr>
<td>Tensile Strength (yield)</td>
<td>D1708, D638</td>
<td>psi</td>
<td>3600</td>
</tr>
<tr>
<td>Elongation (break)</td>
<td>D1708, D638</td>
<td>%</td>
<td>700</td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>D790 @ 23°C</td>
<td>psi</td>
<td>175000</td>
</tr>
<tr>
<td>Notched Izod Impact</td>
<td>D256 @ 23°C</td>
<td>ft-lb/in.</td>
<td>3</td>
</tr>
<tr>
<td>Shore D Hardness</td>
<td>D2240</td>
<td>***</td>
<td>68</td>
</tr>
</tbody>
</table>

**Mechanical**

- **Continuous Service Temperature**
  - Maximum: °C 76
  - °F 170

- **Melting Point**
  - D3418: °C 131
  - °F 267

- **Vicat Softening Point**
  - D1525: °C 124
  - °F 255

- **Coefficient of Expansion**
  - E831 TMA: in/in°F
    - (10^-5) 6.7

- **Deflection Temp**
  - (66psi)
    - D648: °C 73
    - °F 163
  - (264psi)
    - D648: °C 43
    - °F 110

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* Continuous Service Temperature based upon “non-chemical Dry Usage”.
* Table data reflects ASTM based average typical vendor data.
* Data meant as general guidelines only.
* Specific applications require additional testing by the buyer.
* All properties based on standard unbacked product tests only.

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