Plascore Thermoplastic TP Panel
Lightweight Technology for Heavyweight Applications

Replace your heavy structural core with Plascore Thermoplastic TP Panels and achieve equal or better stiffness at a fraction of the weight. Plascore TP Panels can provide equal or higher rigidity at a reduced weight than most traditional materials, such as plywood, foam and tri-laminate plastic.

With a variety of reinforced thermoplastic facings and Plascore PP Honeycomb core densities, a range of performance and costs can be offered to best meet your requirements.

The uniform, non-cosmetic surface finish and durable PP Honeycomb core, makes the TP Panel well suited for many commercial, industrial, interior and exterior applications. Plascore TP Panels are also offered with film and nonwoven surface overlay options, to enable secondary finishing, such as adhesive bonding, coating and painting or for a more visual appearance.

Reinforce Your Structure With The Rigidity of Laminated Plywood And The Weight of PP Honeycomb.

- Lightweight
- Easy to Use
- Structural
- Moisture and Chemical Resistance
- UV Resistance
- Thermoformable
- Recyclable
- Economical
- Vibration and Acoustical Dampening

<table>
<thead>
<tr>
<th>Panel Type</th>
<th>Relative Weight</th>
<th>Relative Rigidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8” T CDX Plywood*</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>10mm T PP Tri-Laminate Board**</td>
<td>0.55</td>
<td>0.10</td>
</tr>
<tr>
<td>1/2” T Plascore PP -30 (.02” T facings)**</td>
<td>0.42</td>
<td>0.80</td>
</tr>
<tr>
<td>1/2” T Plascore PP -30 (.03” T facings)**</td>
<td>0.55</td>
<td>1.15</td>
</tr>
</tbody>
</table>

* Per published data
** Actual data obtained through testing per ASTM C393 Flexural Beam Testing
Thermoplastic (TP) Panel is specified as follows:

Material - Density - Additive - Cell Size - Type

Example: PP1 - 5.0 - UV - 8 - 30 - T - N - 0.500 - 72.000 - 78.000

Additive Type:
- Color
- UV (Std)
- FR

Facing Types:
- 30 - 0.90 Glass-PP
- 32 - 0.90 Glass-PP with a bondable outer surface layer (Nonwoven or Film)
- 50 - Chopped Glass-PP
- 52 - Chopped Glass-PP with a bondable outer surface layer (Nonwoven)

- 30 TP Panel
  Standard with 0.02”T, 0-90 Glass PP facing both sides. Options for 0.02” to 0.06”T facings are available.

- 32 TP Panel
  Use a base -30 Panel with bondable outer layer. White, Black, or Clear film and nonwoven polyester.

- 50 TP Panel
  Standard with 0.03”T, Chopped Glass and PP facing both sides. Options for 0.02” to 0.06”T facings available.

- 52 TP Panel
  Use a base -50 Panel with a nonwoven Polyester bondable outer layer.

**Typical TP Panel Mechanical Properties**

<table>
<thead>
<tr>
<th>PRODUCT ID</th>
<th>FACING TYPE</th>
<th>CORE TYPE</th>
<th>THICKNESS (INCHES)</th>
<th>WEIGHT (LBS/FT²)</th>
<th>COMPRESSION³ STRENGTH (PSI)</th>
<th>FLEXURAL RIGIDITY⁴ (EI/INCH-WIDTH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP1-5.0-UV-8-30</td>
<td>.02”T ¹ 0-90 GLASS-PP</td>
<td>PP HONEYCOMB 5 PCF ²</td>
<td>0.25</td>
<td>0.36</td>
<td>275</td>
<td>1,100</td>
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<td>0.50</td>
<td>0.46</td>
<td>275</td>
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<td></td>
<td>0.75</td>
<td>0.56</td>
<td>275</td>
<td>10,000</td>
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<td></td>
<td></td>
<td></td>
<td>1.0</td>
<td>0.67</td>
<td>275</td>
<td>17,000</td>
</tr>
<tr>
<td>PP1-5.0-UV-8-50</td>
<td>.03”T ¹ CHOPPED GLASS-PP</td>
<td>PP HONEYCOMB 5 PCF ²</td>
<td>0.5</td>
<td>0.5</td>
<td>275</td>
<td>2,850</td>
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<td>0.75</td>
<td>0.6</td>
<td>275</td>
<td>6,500</td>
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<td></td>
<td>1.0</td>
<td>0.7</td>
<td>275</td>
<td>11,000</td>
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</tbody>
</table>

¹ Other facing thicknesses and weights available ² Other PP Honeycomb densities available ³ Per ASTM C365 (Stablized) ⁴ Per ASTM C393 (4 pt 1/4 pt, 20” span)