

PMP TPX®

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TPX Polymethylpentene (PMP) is a crystalline thermoplastic with a very low-density value of 0.82 g/cc and unique permeability characteristics. Its typical color is a translucent milky white, however in thinner gauge sheet and film the material is transparent.



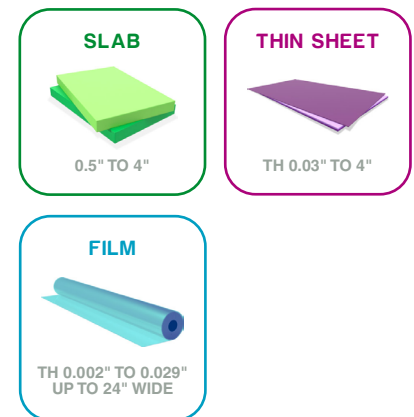
The following physical property information is based on typical values of the resin.

| Property | Units | Test Standard | Unfilled |
|-------------------------------------|-------------------------|---------------|-------------------|
| Mechanical | | | |
| Tensile Strength @yield | psi | ASTM D882 | 4,110 |
| @break | % | ASTM D882 | 10 |
| Tensile Modulus | psi | ASTM D882 | 280,000 |
| Flexural Modulus | psi | ASTM D790 | 210,000 |
| Tear Strength - prop. | g/mil | ASTM D1004 | 125 |
| Thermal | | | |
| Continuous Use Temperature—UL | °F | — | 212 |
| Heat Deflection Temperature @66 psi | °F | ASTM D648 | 212 |
| Melt Temperature—DSC | °F | — | 455 |
| Glass Transition Temperature | °F | ASTM D3418 | — |
| Flammability | | | |
| UL Rating—UL94 | — | — | HB |
| LOI | % | ASTM D2863 | <25 |
| NBS Smoke | Dmax | ASTM E662 | — |
| Electrical | | | |
| Surface Resistivity | Ohms | ASTM D257 | >10 ¹⁶ |
| Dielectric Strength 0.003" | V/mil | ASTM D149 | 3,710 |
| Dielectric Constant | 1 KHz | ASTM D150 | 2.12 |
| Dissipation Factor | 1 KHz | ASTM D150 | 0.000025 |
| Other | | | |
| Specific Gravity | — | ASTM D792 | 0.835 |
| Water Absorption @24 hours | % | ASTM D570 | 0.01 |
| Refractive Index | — | — | 1.463 |
| Haze | % | ASTM D1003 | 2 |
| Area Factor | in ² /lb/mil | — | 32,725 |

Applications Include:

- Speaker cones
- Gas separating membranes
- Release films
- Carrier films for ceramic slurry
- Antennas
- Ultrasonic imaging equipment

Manufacturing Capabilities:



Colors:

Translucent White

In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

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