

DESIGNBOARD® HDPE

| TYPICAL PHYSICAL PROPERTIES | UNITS OF MEASURE | VALUE | ASTM METHOD |
|---------------------------------|-------------------|----------------------|-------------|
| Physical | | | |
| Density | g/cm ³ | 0.96 | D 792 |
| Water Absorption | % | 0.01 | D 570 |
| Melt Index | g/10 min | 0.80 | D 1238 |
| Mechanical | | | |
| Tensile Strength @ Yield | psi | 4,600 | D 638 |
| Elongation @ Break | % | >600 | D 638 |
| Hardness | Shore D | 73 | D 2240 |
| Tensile Impact | ft-lb/in | 120 | D 1822 |
| Flexural Modulus | psi | 225,000 | D 790 |
| Tensile Impact | ft-lb/in | 120 | D 1822 |
| Thermal | | | |
| Heat Deflection Temp (66 psi) | °F | 180 | D 648 |
| Coefficient of Linear Expansion | in/in/°F | 6 x 10 ⁻⁵ | D 696 |
| Vicat Softening Point | °F | 264 | D 1525 |
| Low Temperature Brittleness | °F | < -168 | D 746 |
| Flammability | | | |
| Vertical Burn Test | - | HB | UL 94 |
| Compliances | | | |
| | - | RoHS | |

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The 'Typical' properties of our plastic sheet cannot be automatically used when engineering finished components, and the fabricator or end user is responsible for insuring the suitability of our products for their specific application or end use!