



POLYMAR HDPE

Consistent and easy fabrication sets POLYMAR apart from other HDPE sheet products. Its fabrication advantages come from process technology developed over the years to minimize inherent stress and deliver exceptional flatness. This versatile and durable material serves a wide variety of industrial and recreational applications. Standard sizes and colors in a variety textures are in stock, with fast lead times on a wide array of colors, patterns and sizes.

Typical properties:

| | PROPERTY | ASTM SPEC | UNIT | HDPE |
|-------------------------|--------------------------------|-------------|------------------------------|--------|
| | Specific Gravity | D 792 | **** | 0.96 |
| Environment | Water Absorption | D570 | % | <0.01 |
| | Abrasion Resistance | Taber CS 17 | mg/1000 | **** |
| | Oxygen Index | D2863 | % | **** |
| | Flammability | UL 94 | **** | N.R. |
| | | FM 4910 | **** | NO |
| Coefficient of Friction | C1894 | Static | 0.2 | |
| | C1894 | Dynamic | 0.2 | |
| Mechanical | Tensile Strength (yield) | D1708, D638 | psi | 3600 |
| | Elongation (break) | D1708, D638 | % | 700 |
| | Flexural Modulus | D790 @ 23 C | psi | 175000 |
| | Notched Izod Impact | D256 @ 23 C | ft-lb/in. | 3 |
| | Shore D Hardness | D2240 | *** | 68 |
| Thermal | Continuous Service Temperature | Maximum | °C | 76 |
| | | | °F | 170 |
| | Melting Point | D3418 | °C | 131 |
| | | D3418 | °F | 267 |
| | Vicat Softening Point | D1525 | °C | 124 |
| | | D1525 | °F | 255 |
| | Coefficient of Expansion | E831 TMA | in/in/°F (10 ⁻⁵) | 6.7 |
| | Deflection Temp (66psi) | D648 | °C | 73 |
| | | D648 | °F | 163 |
| | Deflection Temp (264psi) | D648 | °C | 43 |
| D648 | | °F | 110 | |

* 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

Polymer HDPE



ADVANTAGES

- Resists most chemicals
- Odor and stain resistant
- Durable, high impact strength
- Low coefficient of friction
- Low moisture absorption
- Flatness and stability in fabrication

PROVEN APPLICATIONS

- Chemical tanks and covers
- Food processing equipment and surfaces
- Hockey rink surfaces, kick plates and official lines
- Hopper chutes and linings
- Machined industrial parts
- Toilet partitions, lockers

STANDARD SIZES

- Width, length: 48" x 96"
Tolerance +1/2"/-0" L&W
- Thickness: 1/4" thru 2.0"
Tolerance +/-5%

STANDARD COLORS:

- Natural
- Black

STANDARD FINISHES:

- Smooth & textures

CUSTOM SIZES, COLORS

- Contact inside sales for minimums, lead times

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