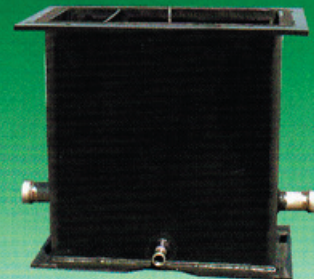


HITEC®

HIGH DENSITY POLYETHYLENE (HDPE)



Hitec HDPE is a high impact, abrasion resistant, high density polyethylene sheet. It is ideally suited for the manufacture of chemical resistant products, mechanical wear products, and machine parts. Hitec is also FDA compliant for applications that come in direct contact with foodstuffs (FDA 21 CFR 177.1520).

FEATURES AND BENEFITS

- **Hardness** Hitec is abrasion resistant and will resist scratching.
- **Strength** Hitec has high tensile and stiffness for machine parts and tank applications.
- **Ductility** Hitec is stress crack resistant.
- **Machinable** Hitec is easy to machine with conventional tools.

APPLICATIONS

- Business Machine Parts
- Guides and Wear Plates
- Cams, Washers, Shims
- Packing Rings in Chemical Applications
- Low Speed Bearings
- Laboratory Vessels
- Rotors and Blades
- Roll Stand Bearings
- Nuclear Storage Containers
- Skids and Deflector Plates
- Tank, Chute and Bin Linings



Photo courtesy of AB Plastics



Top photo courtesy of Lee Supply Co.

Hitec® High-Density Polyethylene (HDPE) Typical Properties

PROPERTY	UNITS	VALUE	ASTM METHOD
----------	-------	-------	-------------

Physical

ASTM Type, Class, Category	–	IV, A, 4	D 1248
Cell Classification	–	42662A	D3350
Density	g/cm ³	0.960	D 1505
Hardness	Shore D	69	D 2240

Mechanical

Tensile Strength @ Break	psi	4500	D 638
Elongation @ Break	%	>400	D 638
Flexural Modulus	psi	225,000	D 790
Tensile Impact, (2)	ft-lb/in	120	D 1822
Izod Impact	ft-lb/in	3.0	D 256

Thermal

Low Temperature Brittleness, F50	°C	< -76	D 746
Heat Deflection Temperature @ 66 PSI	°C	82	D 648
Vicat Softening Point	°C	129	D 1525



**801 COREY STREET
MOOSIC, PA 18507, USA
570-346-8797
Fax 570-346-8050
www.cpg-vycom.com**

Hitec® High-Density Polyethylene (HDPE) Product Availability

COLOR	FINISH	THICKNESS	WIDTH	LENGTH
Black	Smooth	1/8"–3"	48"	96"
		1/8"–3"	48"	120"
		1/4"–2"	60"	120"
Natural (FDA approved)	Smooth	1/4"–2"	48"	96"
		1/4"–2"	48"	120"
		1/4"–2"	60"	120"

WARRANTY

All sheeting guaranteed void free, the limit of our warranty is your money refunded or defective material replaced; no other warranties are expressed or implied.

* Physical properties of plastic sheeting are presented as "Typical." Information contained herein is considered accurate to the best of our knowledge. It is offered for your consideration and investigation, and is not to be construed as a representation or warranty expressed or implied, for which the Compression Polymers Corp. assumes any legal responsibility. Our warranties are limited to those expressly stated in formal contracts or in conditions of sale on our invoices and order acceptances. Conditions and methods of use vary and are beyond the control of Compression Polymers Corp., therefore, Compression Polymers Corp. disclaims any liability incurred as a result of the use of its products in accordance with the data contained on our physical property charts. No information herein shall be construed as an offer of indemnity for infringement or as a recommendation to use the products in such a manner as to infringe any patent, domestic or foreign.

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