

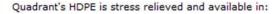
HDPE

Cost Effective Materials For General Purpose Applications in Wet and Dry Environments

Product Profile:

- Meets FDA/USDA food handling guidelines (natural color)
- * Chemical- and corrosion- resistant
- · Light-weight
- No moisture absorption
- · High tensile strength
- · Non-toxic
- · Non-staining
- Thermoforming performance

Quadrant's high density polyethylene (HDPE) is used in a variety of applications and industries where excellent impact resistance, high tensile strength, low moisture absorption and chemical-and corrosion-resistance properties are required. It is available in both extruded (up to 1" thick) and pressed sheet (from 1 " through 4" thick).



- black, 48" x 96" sheets with gauge sizes ranging from 1/8" to 1"
- ' natural: 48" x 96" sheets with gauge sizes ranging from 1/16" to 4"
- * natural: 48" x 120" sheets with gauge sizes ranging from 1/8" to 2"
- ' natural: 60" x 120" sheets with gauge sizes ranging from 1/8" to 1"

Industries	Appplications
Chemical storage Liquids storage Medical	Light duty chain guides Orthotic and prosthetic devices Secondary containment

Recreational vehicles Tanks
Thermoforming Thermoformed material handling devices
Water storage

Dallas, Texas (Corporate Offices) phone 800-782-1836 / 214-239-3870 fax 214-239-3871 Houston, Texas phone 800-282-4388 / 713-979-0660 fax 713-979-0664 Brandon, Mississippi phone 800-457-8623 / 601-825-7919 fax 601-825-7109 January 1, 2010 - Version 3.0 www.nationwideplastics.net Page 1 - 0



Data Sheet No: 10503

Revision: 00

Effective Date: 7/14/06

Page 1 of 1

DATA SHEET HDPE - Natural High Density Polyethylene Typical Average Test Property Units Method Values Mechanical Specific Gravity, 73° F ASTM D792 .96 Yield Point, 73° F 4600 psi ASTM D638 Tensile Elongation (at yield), 73° F % ASTM D638 12 Tensile Break, 73° F ASTM D638 4600 psi Tensile Elongation (at break), 73° F % ASTM D638 400 Tensile Modulus of Elasticity, 73° F 200000 psi ASTM D638 174000 Flexural Modulus of Elasticity, 73° F psi ASTM D790 Izod Impact (notched), 73° F ASTM D256 Type "A" 1.3 ft.lb./in. 70 Hardness, Durometer, Shore "D" Scale, 73° F **ASTM D2240** -Thermal Heat Deflection Temperature 264 psi °F ASTM D648 °F **ASTM D3418** 260 Melting Point (crystalline) peak Continuous Service Temperature in Air (Max.)(1) °F 180 **Electrical** >10¹⁵ Volume Resistivity Ohm-cm ASTM D257 Surface Resistivity ASTM D257 >10¹⁵ Ohm Flammability @ 3.1 mm (1/8 in.) (3) **UL94** HB Miscellaneous Water Absorption % by wt. ASTM D570(2) < .01

- Data represent Quadrant's estimated maximum long-term service temperature based on practical field experience.
- (2) Specimens: 1/8" thick x 2" diameter or square.
- (3) Estimated rating based on available data. The UL 94 Test is a laboratory test and does not relate to actual fire hazard. Contact Quadrant for specific UL "Yellow Card" recognition number.

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