

VULCAN HIGH DENSITY POLYETHYLENE

Vulcan High Density Polyethylene (HDPE) is a very durable alternative to aluminum for line marker signs. It has the same capabilities as aluminum in terms of longevity outside and the ability to be die-cut into different shapes. The standard thickness for HDPE is .110" and signs are printed with matched component inks for maximum durability.

PRODUCT DATA



(HDPE) WARNING SIGN ON GALVANIZED ANGLE POST



3 WAY MARKER

EXTRUSION - POLYETHYLENE

SURFACE	GAUGE	MIN WIDTH	MAX WIDTH	MIN LENGTH	MAX LENGTH
MATTE	.014 - .054	9"	48"	9"	60"
MATTE	.055 - .250	9"	48"	9"	96"

ADVANTAGES OF POLYETHYLENE

- EXCELLENT DURABILITY IN BOTH HOT AND COLD TEMPERATURES
 - IMPERVIOUS TO MOST CHEMICALS
 - STABILITY IN OUTDOOR APPLICATIONS
 - VARIETY OF COLORS, THICKNESSES
- ACCEPTS NUMEROUS DECORATING TECHNIQUES AND ENHANCES UNIQUE GRAPHIC DESIGNS
 - ENVIRONMENTALLY FRIENDLY IN PRODUCTION
- RECYCLABLE FOR USE IN SECONDARY APPLICATIONS OR PRODUCING HIGH-ENERGY FUELS

VULCAN HIGH DENSITY POLYETHYLENE

TECHNICAL SPECIFICATIONS

TYPICAL PROPERTIES

<u>PROPERTY</u>	<u>ASTM DESIGNATION</u>	<u>VALUE</u>
MELT INDEX (G/10MIN)	D 1238	.250 - .300
DENSITY	D1505	.950 - .955
YIELD (LB./SQ. IN.)		4,000
ELONGATION (%)		600
1% SECANT MODULUS OF ELASTICITY (LB./SQ. IN)	D 638	120,000
FLEXURAL STIFFNESS (LB./SQ. IN.)	D747	125,000
TORSIONAL STIFFNESS (LB./SQ. IN.)	D 1043	45,000
LOW TEMPERATURE BRITTLINESS (F/F50*)		<105°
MOISTURE VAPOR TRANSMISSION RATE		
(G-MIL/100 SQ. IN./24 HR. @ 37.8C)	E 96	.3
WATER ABSORPTION/24 HR.	D 570	NIL
HARDNESS, SHORE D	D 2240	64
IZOD IMPACT STRENGTH @ ROOM TEMP.		
(FT. LB./IN.)	D 256	6.3
FLEXURAL MODULUS @ 1% SECANT	D 790	180,000
HEAT DEFLECTION TEMP. @ 66 P.S.I.	D 648	72° C
TENSILE IMPACT STRENGTH (FT. LB./IN.)	D 1822	110

*(F50=50% FAILURE)



MADE IN THE USA