

# 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 BRITTLENESS (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