

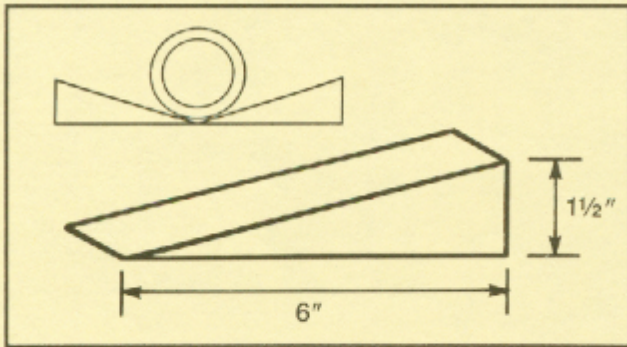
# POLYWEDGE™

## HDPE BLOCKING WEDGES

POLYWEDGES are fabricated from a high density polyethylene material specifically developed as a replacement for wood blocking wedges. POLYWEDGES will not break down or host the rot microorganisms that are known to cause corrosion on steel pipelines.

Microbiologically influenced corrosion (MIC) of steel gas pipelines is an ongoing Gas Research Institute project and is well documented in corrosion control literature. Bacteriologically generated corrosion cells on underground steel mains are frequently the result of long term contact with a wooden blocking wedge. The wood absorbs moisture and plays host to the organisms that cause the corrosion. By comparison POLYWEDGES offer vastly superior resistance to both moisture absorption and microorganism growth.

POLYWEDGES are packed 100 to a box in a standard 1 1/2" high, 1" wide, by 6" long size. With adequate volume POLYWEDGES can be fabricated to meet a particular specification.



**WARNING: POLYWEDGES are absolutely not suitable for relief of metal to metal contact shorts. Polyethylene materials do not have the necessary compressive strengths to tolerate the point loading that causes contact shorts. (Refer to Glas Mesh literature on FRP Type #120 Spacers)**

### TECHNICAL DATA

#### THERMAL

Distortion Temperature, °F	150 - 170
Resistance to Heat, Continuous °F	250
Recommended use, Temp °F Max.	190
Specific Heat, cal/gm/°C	0.5 - 0.6
Linear Thermal Expansion, /°C × 10 <sup>5</sup>	12 - 14
Thermal Conductivity, cal/sec/sq. cm/cm × 10 <sup>4</sup>	8 - 10
Burning Rate	0.8 - 1.2 (in/min)

#### ELECTRICAL

Volume Resistivity, Ohm - cm	10 <sup>16</sup>
Dielectric Strength, Short Time, 1/8" thick, V/mil	500 - 700
Dielectric Strength, Step-by-step, 1/8" thick, V/mil	450 - 500

#### PHYSICAL

Specific Gravity	0.941 - 0.965
Specific Volume, cu. in/lb	29
Water Absorption, 24 hrs., 1/8" thick	< 1.01
Machinability	excellent
Effect of Sunlight	embrittlement

#### MECHANICAL

Tensile Strength, psi	2800 - 5500
Flexural Strength, psi	3200
Compressive Strength, psi	2400
Impact Strength, Izod, Ft. lbs/in - notch	8 - 8.0
Rockwell Hardness	D60 - 70 (Shore)
Elongation, %	15 - 400