

Keep-a-Cables are made of 3/16” High Density Polyethylene

Material Properties

Polyethylene

Polyethylene is a thermoplastic material produced by polymerizing ethylene gas with a catalyst in a reactor. Polyethylenes are characterized by their low cost, light weight, and excellent low temperature properties. Also, Polyethylenes exhibit excellent resistance to gamma rays in atomic radiation and is nontoxic. Toughness, near-zero moisture absorption, excellent chemical resistance, excellent electrical insulating properties, low coefficient of friction, and ease of processing add to its impressive list of benefits.

Based on their specific gravity, Polyethylene is divided into two main categories: Low density (.910 - .925), and High Density (.941 - .965).

High Density, HDPE, is produced by packing molecules more closely together. HDPE has greater stiffness, rigidity, heat resistance, and increased resistance to permeability than LDPE. HDPEs are classified as either homopolymers which are stiffer, and copolymers which are more stress-crack resistant. HDPE is used for structural applications as it is almost four times better in tensile strength, and three times better in compressive strength than LDPE. HDPE has a working temperature of 212 degrees F - 220 degrees F under low load conditions and it may be autoclaved at sterilizable temperatures. Specification: L-P-390 CL.H, L-P-512

Unique Properties

Anti corrosive

Radiation resistant

Low cost

Low temperature

Excellent electrical insulating

Non toxic

Low coefficient of friction

Light weight

Standard Color: Milky white