

LDPE

Low Density Polyethylene

Description and Overview

Low density polyethylene (LDPE) is a polyolefin more flexible than HDPE, which makes it a good choice for prosthetic devices, most of which are either drape formed or vacuum formed. Low Density Polyethylene features minimal rigidity, is vacuum formable, and self is adhesive when hot. Its impact resistance makes it a natural choice for impact pads, while its easy machinability makes it a good choice for fabricated parts where chemical and corrosion resistance is demanded.

Features

- Translucent white
- Lightweight
- Good impact resistance
- Extremely flexible
- Easily cleaned
- Great thermoforming performance
- Meets food handling guidelines
- No moisture absorption

Typical Applications

- Die Pads
- Hinges
- Impact pads
- Orthotic and prosthetic devices
- Thermoformed parts and applications
- Industrial parts
- Medical parts



Properties and Specifications

Property	LDPE
Density (g/cm ³)	0.92
Water Absorption	<0.01%
Hardness, Shore D	45
Notched Impact Strength	No-Break
Tensile Modulus	57 ksi
Elongation at Break	100%
Melting Temperature	244F
Maximum Service Temperature	160F
Flexural Strength	1500 psi
Flexural Modulus	29 ksi

Properties are typical.
Field testing is recommended for any application.

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