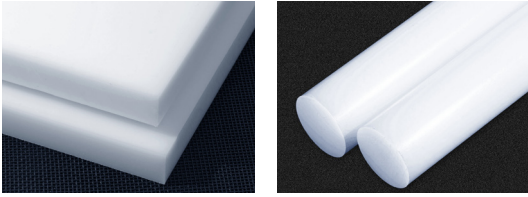


# LDPE

Soft, flexible, lightweight plastic material that is easy to fabricate and form



LDPE (low density polyethylene) is a soft, flexible, lightweight plastic material. It is often used for orthotics and prosthetics. LDPE has good chemical and impact resistance and is easy to fabricate and form.

## LDPE Material Options

**LDPE Sheet Stress Relieved** – offers improved machinability and dimensional stability over extruded LDPE.

**FDA Compliant LDPE** – LDPE is available in FDA compliant grades.

**LDPE Sheet for O&P** – Low Density Polyethylene is more flexible than HDPE, polypro, or copoly PP, making it an excellent choice for pediatric AFOs, some splints, and flexible socket interfaces.

**Modified LDPE Sheet for O&P** – Modified polyethylene is slightly stiffer than LDPE, but more flexible than HDPE, polypro, or copoly PP. It is used for applications where flexibility and light support are required.

## LDPE is widely used for:

- Orthotics
- Prosthetics

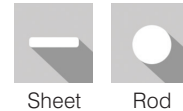
## Performance characteristics:

- Soft and pliable
- Easy to weld and heat seal
- Good chemical resistance
- Low moisture absorption

## Common brands:

- Orthoform®
- Densetec
- TECAFINE®

## Available in:



Sheet

Rod

## TYPICAL PROPERTIES OF LDPE

	UNITS	ASTM TEST	LDPE
Tensile strength	psi	D638	1,400
Flexural modulus	psi	D790	30,000
Izod impact (notched)	ft-lbs/in of notch	D256	no break
Heat deflection temperature @ 264 psi	°F	D648	122
Maximum continuous service temperature in air	°F		-
Water absorption (immersion 24 hours)	%	D570	0.10
Coefficient of linear thermal expansion	in/in/°F $\times 10^{-5}$	D696	-

Values may vary according to brand name. Please ask your Curbell Plastics representative for more specific information about an individual brand.