

Prime LDPE 049

Our Prime LDPE 049 is a Low Density Polyethylene specifically designed for high performance molding applications.

High melt strength, good impact resistance, flexibility, and outstanding ESCR characteristics.

Customization

Prime LDPE 049 processes at lower temperatures than HDPE or HMWPE. The forming temperature is 295-320°F and the tool temperature is 100-130°F. The mold shrink is .015-.020 in/in in the machine direction and .009-.011 in/in in the transverse direction.

Prime LDPE 049 can be color matched to meet your specific requirements through our vertical integration with Primex Color, Compounding & Additives.

Sustainability

Sustainability includes considering the product's circularity or end of life during the design of the finished product. Prime HMWPE 1000 Swirl is a polyethylene (recycle code 2) that can be recycled as a post-industrial or post-consumer product. Contact your Primex Territory Business Manager or check with local recycling facilities to determine where it is collected and recycled.

Primex Sustainability: A better tomorrow, starting today!



Prime LDPE 049 | Data Sheet

Prime LDPE 049 is available in FDA, printing, exterior construction, and thermoforming grades. Noted for their toughness, durability, and chemical resistance our polyolefins are found in a wide variety of consumer and industrial applications.

Applications

Prime LDPE 049 is ideal for packaging applications such as pharmaceuticals, dried fruits, and meats. It is also being used for dunnage applications in the computer industry as well as for drum liners.

Finishing

Prime LDPE 049 can be die cut, punched, sheared, and cut with a hot knife. Bonding is typically achieved by sonic welding.

Colors, Textures, and Capabilities

Primex extrudes Prime LDPE 049 in sheet or roll stock and in gauges of .030-.200 and up to 64" in width.

Property	Method	Value	Unit
Specific Gravity	D792	0.931	
Melt Flow, 10C/2.16kg	D1238	0.268	g/10 min
Tensile Strength @ Break	D638	2,260	psi
Tensile Strength	D882	3,000	psi
Elongation (MD)	D638	520	%
Elongation	D882	300	%
1% Secant Modulus	E111	24,000	psi
Elmendorf Tear Strength	D1922	220	g

FDA compliant materials available upon request.

Prime LDPE 049	Very High	High	Avg.
Impact Strength			*
Low Temperature Impact Strength			*
Tensile Strength			*
Flexural Modulus			*
Heat Deflection Temperature			*