Prime PE LDPE 049

Low Density Polyethylene

Primex Plastics Corporation

Message:

Prime LDPE 049 is a Low Density Polyethylene specifically designed for high performance molding applications. This fractional melt index material is suitable for applications requiring high melt strength, good impact resistance, flexibility and outstanding ESCR characteristics.
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.
Processing:
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.
Finishing:
Prime LDPE 049 can be die cut, punched, sheared and cut with a hot knife. Bonding is typically achieved by sonic welding.
Please contact your Primex Plastics representative for more information on finishing, fabricating, or the thermoforming process.
Colors, Textures and Capabilities:
Prime LDPE 049 can be color matched to meet your specific requirements. Primex extrudes Prime LDPE 049 in sheet or roll stock and in gauges of .030 - .200 and up to 64" in width.

General Information			
Features	Good Flexibility Good Impact Resistance Good Melt Strength High ESCR (Stress Crack Resist.)		
Uses	Computer Components Drums Food Packaging Pharmaceutical Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Colors Available		
Forms	Sheet		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.917	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ASTM D1238
Molding Shrinkage			
Flow	1.5 to 2.0	%	
Across Flow	0.90 to 1.1	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	42		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	9.65	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	23.9	°C	ASTM D746
Specific Heat	2090	J/kg/°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Haze	35	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	
Forming Temperature	146 to 160	°C	
Tool Temperature	38 to 54	°C	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China