

# Polifil® PE RP-LDPE

Low Density Polyethylene

The Plastics Group

## Message:

Polifil® RP-LDPE is a soft, tough material with high chemical resistance. LDPE remains flexible and retains impact strength at very low temperatures. High melt flow (low viscosity) grades are injection molded into products such as containers and lids. Low melt flow (high viscosity) grades are used in blown films for bags and construction, extruded sheeting and pipe, and lawn edging. Use this information as a guide to aid you in selecting the proper resin for your application. TPG will custom compound and fine-tune our formulations for your application.

General Information			
Recycled Content	Yes		
Features	Good Chemical Resistance		
	Good Flexibility		
	Good Impact Resistance		
	Good Toughness		
	Low Temperature Impact Resistance		
	Soft		
Uses	Containers		
	Heavy-duty Bags		
	Lawn and Garden Equipment		
	Lids		
	Piping		
	Sheet		
Forms	Pellets, Reprocessed		
Processing Method	Blow Molding		
	Injection Molding		
	Pipe Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	3.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D1415
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	165	MPa	ASTM D638
Tensile Strength (23°C)	11.7	MPa	ASTM D638

Tensile Elongation			ASTM D638
Yield, 23°C	15	%	
Break, 23°C	> 300	%	
Flexural Modulus - Tangent (23°C)	207	MPa	ASTM D790
Flexural Strength (23°C)	9.65	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	No Break		ASTM D256
Gardner Impact (23°C, 12.7 mm)	> 22.6	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	71.1	°C	ASTM D648

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#### Recommended distributors for this material

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