

# MARPOL® LL4M 812

Linear Low Density Polyethylene

Marco Polo International, Inc.

## Message:

This resin is a butene copolymer designed for injection molding applications that require excellent toughness, good processability and tear resistance.  
Recommended Applications: Caps, closures and lids

General Information			
Features	High Toughness		
	Low density		
	Butene comonomer		
	Copolymer		
	Workability, good		
	Good tear strength		
Uses	Cover		
	Shield		
	Shell		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm <sup>3</sup>	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	4.00	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	11.8	MPa	ASTM D638
Tensile Elongation (Break)	510	%	ASTM D638
Flexural Modulus - 1% Secant	293	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (-40°C)	303	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	99.4	°C	ASTM D1525
Peak Melting Temperature	123	°C	ASTM D3418

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Recommended distributors for this material

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