

MARPOL® LL4M 850

Linear Low Density Polyethylene

Marco Polo International, Inc.

Message:

Applications include freezer lids, housewares, closures, dispensers, protective caps. Compounding this resin offers outstanding toughness and tear resistance in freezer applications.

General Information	
Features	Good Tear Strength
	Low Temperature Resistant
	Low Temperature Toughness
Uses	Caps
	Closures
	Compounding
	Household Goods
	Lids
	Low Temperature Applications

Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	50	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F50)	< 1.00	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	11.2	MPa	ASTM D638
Tensile Elongation (Break)	90	%	ASTM D638
Flexural Modulus - 1% Secant	265	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (-40°C)	222	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	91.8	°C	ASTM D1525
Peak Melting Temperature	123	°C	ASTM D3418

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