

MARPOL® LL4M 820

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	Food Contact Acceptable
	Good Tear Strength
	Low Temperature Resistant
	Low Temperature Toughness
Uses	Caps
	Closures
	Household Goods
	Lids
	Low Temperature Applications
Agency Ratings	FDA Food Contact, Unspecified Rating
	HPB (Canada) Food Contact, Unspecified Rating

Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	< 1.00	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	11.0	MPa	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638
Flexural Modulus - 1% Secant	258	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (-40°C)	255	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	94.8	°C	ASTM D1525
Peak Melting Temperature	124	°C	ASTM D3418

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WECHAT