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/cm³	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/m²	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

Recommended distributors for this material

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