

MARPOL® LL4M 850

Product Description

Marco Polo International, LLC - Linear Low Density Polyethylene

Thursday, January 4, 2024

General Information

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

General			
Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	• North America
Features	 Good Tear Strength Low Density	 Low Temperature Resistant Low Temperature Toughness	
Uses	CapsClosures	 Household Goods Lids	Low Temperature Applications

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density	0.926	g/cm ³	ASTM D4883	
Melt Mass-Flow Rate (190°C/2.16 kg)	50	g/10 min	ASTM D1238	
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693B	
10% Igepal, F50	< 1.00	hr		
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	

Notes

¹ Typical properties: these are not to be construed as specifications.



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