

MARPOL® MD 12 HLMI

Medium Density Polyethylene

Marco Polo International, Inc.

Message:

Recommended Applications: Landfill liners, gasoline and chemical tanks, containment liners, tunnel moisture barriers and mine tailing collection projects.

General Information			
Uses	Fuel Tanks		
	Liners		
	Mining Applications		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
10% Igepal, F20	> 1500	hr	
100% Igepal, F50	> 1500	hr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	17.9	MPa	ASTM D638
Tensile Elongation ¹ (Break)	850	%	ASTM D638
Flexural Modulus ²	827	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	504	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	58.9	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	47.2	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	13 mm/min		

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