

MARPOL® HDM 505

High Density Polyethylene

Marco Polo International, Inc.

Message:

Recommended Applications: Industrial caps and closures, industrial pails, packaging drum lids, recreational vehicle components.

General Information			
Uses	Caps		
	Closures		
	Lids		
	Pails		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F50)	16.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.6	MPa	ASTM D638
Tensile Elongation (Break)	73	%	ASTM D638
Flexural Modulus - 1% Secant	786	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-40°C)	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	71.1	°C	
1.8 MPa, Unannealed	37.3	°C	
Peak Melting Temperature	133	°C	ASTM D3418

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