

# MARPOL® HDM 545

High Density Polyethylene

Marco Polo International, Inc.

## Message:

Recommended Applications: Dairy containers, margarine containers, butter tubs and promotional drink cups.

General Information			
Uses	Cups		
	Food Containers		
	Food Packaging		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm <sup>3</sup>	ASTM D1505
Apparent Density	0.59 to 0.62	g/cm <sup>3</sup>	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	45	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	24.5	MPa	ASTM D638
Tensile Elongation (Break)	6.3	%	ASTM D638
Flexural Modulus - 1% Secant	979	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	24	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	63.9	°C	ASTM D648
Vicat Softening Temperature	121	°C	ASTM D1525
Peak Melting Temperature	126	°C	ASTM D3418

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## Recommended distributors for this material

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