

# MARPOL® HDM 510

High Density Polyethylene  
Marco Polo International, Inc.

Message:

MARPOL® HDM 510 exhibits excellent stiffness for thin walled applications, improved stack strength and low viscosity for exceptional processing with shorter cycle times. This resin's superior physical properties provide impact resistance for demanding applications and low warpage for improved part quality and reliability.  
Recommended Applications: Crates, pallets, pails and totes

General Information	
Features	Fast Molding Cycle
	Good Impact Resistance
	Good Processability
	High Stiffness
	Low Viscosity
	Low Warpage
Uses	Crates
	Pails
	Pallets
	Thin-walled Parts
	Tool/Tote Box

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.962	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	33.0	MPa	
Break	15.0	MPa	
Tensile Elongation			ASTM D638
Yield	7.0	%	
Break	100	%	
Flexural Modulus - 1% Secant	1700	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	131	°C	ASTM D1525

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Recommended distributors for this material

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WECHAT