

# MARPOL® HDM 533

High Density Polyethylene Copolymer

Marco Polo International, Inc.

## Message:

MARPOL® HDM 533 is a narrow molecular weight hexene copolymer designed to maximize injection molding speed and productivity in thin wall articles. Lower processing temperatures enable production of products free of taste and odor for food and beverage packaging. Recommended Applications: Food packaging containers, food service trays, houseware articles, housewares, and toys.

General Information			
Features	Copolymer		
	Hexene Comonomer		
	Low to No Odor		
	Low to No Taste		
	Narrow Molecular Weight Distribution		
Uses	Food Containers		
	Food Packaging		
	Household Goods		
	Thin-walled Parts		
	Toys		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	33	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F50)	< 2.00	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	21.8	MPa	ASTM D638
Tensile Elongation (Break)	56	%	ASTM D638
Flexural Modulus - 1% Secant	752	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-40°C)	45	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	56.1	°C	
1.8 MPa, Unannealed	37.8	°C	
Peak Melting Temperature	131	°C	ASTM D3418

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