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/cm³	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

Recommended distributors for this material

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