

MARPOL® HDB 506

High Density (MMW) Polyethylene

Marco Polo International, Inc.

Message:

MARPOL® HDB 506 is a medium molecular weight, high density polyethylene with excellent stiffness and melt uniformity.

Recommended Applications

Food packaging, liquid food containers, milk containers, juice containers, water containers, thermoformed parts and thin gauge sheet.

General Information			
Features	Rigidity, high		
	High density		
	Medium molecular weight		
Uses	Beverage Containers		
	Thermoforming Applications		
	Sheet		
	Food packaging		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.963	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	< 0.30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal)	> 20.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	31.0	MPa	ASTM D638
Tensile Elongation (Break)	450	%	ASTM D638
Flexural Modulus	1590	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	147	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525

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Recommended distributors for this material

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