

MARPOL® HDB 507

High Density Polyethylene
Marco Polo International, Inc.

Message:

Description
MARPOL® HDB 507 is a medium molecular weight distribution high density polyethylene homopolymer. This resin exhibits excellent processing uniformity and produces bottles with great appearance and rigidity. This resin has superior barrier properties and imparts minimum odor and taste to the packaged product.

Recommended Applications
Food packaging, liquid food containers for milk, water and juice containers. Also good thermoformed parts.

General Information			
Features	Food Contact Acceptable		
	High Rigidity		
	Homopolymer		
	Low to No Odor		
	Low to No Taste		
	Med.-Wide Molecular Weight Distrib.		
Uses	Bottles		
	Food Packaging		
	Fruit Juice Bottles		
	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)	0.73	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal)	10.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	34.5	MPa	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	126	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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