

MARPOL® HDB 504

High Density Polyethylene
Marco Polo International, Inc.

Message:

Recommended Applications: Products requiring excellent environmental stress crack resistance (ESCR), agricultural chemical bottles and other products processed with continuous extrusion blow molding equipment.

General Information			
Features	Food Contact Acceptable		
	High ESCR (Stress Crack Resist.)		
Uses	Agricultural Chemicals Bottles		
	Bottles		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Processing Method	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.22	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 2% Secant	931	MPa	ASTM D638
Tensile Strength (Yield)	25.5	MPa	ASTM D638
Tensile Elongation (Break)	> 700	%	ASTM D638
Flexural Modulus	1140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	71.1	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525

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