

MARPOL® HDB 505

High Density (HMW) Polyethylene

Marco Polo International, Inc.

Message:

MARPOL® HDB 505 is a high molecular weight high density polyethylene copolymer. It has a combination of excellent processability, melt strength, high impact strength, chemical resistance and high stress cracking resistance.

General Information			
Features	Excellent Processability		
	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	High density		
	Copolymer		
	Impact resistance, high		
	Good melt strength		
	Good chemical resistance		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	< 0.10	g/10 min	ASTM D1238
190°C/21.6 kg	5.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal)	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.7	MPa	ASTM D638
Tensile Elongation (Break)	1100	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (23°C)	420	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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