

MARPOL® HDB 546

High Density Polyethylene

Marco Polo International, Inc.

Message:

MARPOL® HDB 546 is a high load melt index, high-density polyethylene copolymer. This resin exhibits excellent stress crack resistance, melt strength and processability. It also displays high impact strength and good chemical resistance.

Recommended Applications

Drums, heavy gauge sheets, thermoformed parts, fuel tanks, food packaging, intermediate bulk containers, compression moldings and large part blow molding

General Information			
Features	Excellent Processability		
	High ESCR (Stress Cracking Resistance)		
	High density		
	Copolymer		
	Impact resistance, high		
	Good melt strength		
	Good chemical resistance		
Uses	Thermoforming Applications		
	Blow molding applications		
	Drum		
	Sheet		
	Container		
	Food packaging		
	Fuel Tank		
Processing Method	Blow molding		
	Thermoforming		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Density	0.946	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)	24.1	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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Recommended distributors for this material

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