

# Marlex® 9503HF

High Density (HMW) Polyethylene  
Chevron Phillips Chemical Company LLC

Message:

Marlex® 9503HF is a High Density (HMW) Polyethylene material. It is available in Latin America or North America for blow molding or extrusion. Important attributes of Marlex® 9503HF are:

Antistatic

Food Contact Acceptable

Hexene Comonomer

High ESCR (Stress Crack Resistant)

High Molecular Weight

Typical applications include:

Containers

Bottles

Engineering/Industrial Parts

Food Contact Applications

General Information			
Additive	Antistatic		
Features	Antistatic		
	Durable		
	Food Contact Acceptable		
	Good Impact Resistance		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Bottles		
	Containers		
	Industrial Containers		
	Industrial Parts		
Agency Ratings	ASTM D 4976-PE235		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.31	g/10 min	ASTM D1238

Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	> 800	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Compression Molded)	24.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, Compression Molded)	500	%	ASTM D638
Flexural Modulus - Tangent <sup>3</sup> (Compression Molded)	1030	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746A
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		
3.	13 mm/min		

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#### Recommended distributors for this material

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