

# Marlex® 9005

High Density Polyethylene  
Chevron Phillips Chemical Company LLC

Message:

Marlex® 9005 is a High Density Polyethylene material. It is available in Latin America or North America for extrusion or injection molding. Important attributes of Marlex® 9005 are:

- Flame Rated
- Eco-Friendly/Green
- Food Contact Acceptable
- Hexene Comonomer
- High ESCR (Stress Crack Resistant)

Typical applications include:

- Containers
- Agricultural
- Food Contact Applications
- Industrial Applications
- Seating

General Information			
UL YellowCard		E349283-100986346	
Features	Durable		
	Food Contact Acceptable		
	Good Impact Resistance		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	Low Warpage		
	Medium Flow		
	Recyclable Material		
Uses	Agricultural Applications		
	Containers		
	Food Containers		
	Industrial Applications		
	Seats		
Agency Ratings	ASTM D 4976-PE233		
	FDA 21 CFR 177.1520(c) 3.2a		
UL File Number		E54700	
Forms		Pellets	
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method

Density	0.945	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	90.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Compression Molded)	23.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, Compression Molded)	1000	%	ASTM D638
Flexural Modulus - Tangent <sup>3</sup> (Compression Molded)	1070	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	121	°C	ASTM D1525 <sup>4</sup>
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		
3.	13 mm/min		
4.	Rate A (50°C/h), Loading 1 (10 N)		

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#### Recommended distributors for this material

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