

# Marlex® 9012

High Density Polyethylene  
Chevron Phillips Chemical Company LLC

Message:

Marlex® 9012 is a High Density Polyethylene material. It is available in Europe, Latin America, or North America for injection molding. Important attributes of Marlex® 9012 are:

- Eco-Friendly/Green
- Food Contact Acceptable
- Good Stiffness
- Hexene Comonomer
- Impact Resistant

Typical applications include:

- Food Contact Applications
- Automotive
- Caps/Lids/Closures
- Consumer Goods
- Containers

General Information			
Features	Food Contact Acceptable		
	Good Flow		
	Good Impact Resistance		
	Good Stiffness		
	Hexene Comonomer		
	Recyclable Material		
Uses	Automotive Applications		
	Closures		
	Household Goods		
	Non-specific Food Applications		
	Pails		
	Toys		
Agency Ratings	ASTM D 4976-PE232		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	15.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D, Compression Molded)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Compression Molded)	27.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, Compression Molded)	900	%	ASTM D638
Flexural Modulus - Tangent <sup>3</sup> (Compression Molded)	1270	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525 <sup>4</sup>
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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