

# Marlex® 9035

High Density Polyethylene

Chevron Phillips Chemical Company LLC

## Message:

Marlex® 9035 is a High Density Polyethylene material. It is available in Latin America or North America for injection molding.

Important attributes of Marlex® 9035 are:

Good Stiffness

Hexene Comonomer

Impact Resistant

Typical applications include:

Consumer Goods

Containers

Food Contact Applications

General Information			
Features	Good Flow		
	Good Impact Resistance		
	Good Stiffness		
	Hexene Comonomer		
Uses	Thin-walled Containers		
	Toys		
Agency Ratings	ASTM D 4976-PE231		
	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 D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	40	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	< 10.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	24.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	< 100	%	ASTM D638
Flexural Modulus - Tangent <sup>3</sup>	979	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature <sup>4</sup>	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	115	°C	ASTM D1525 <sup>5</sup>
NOTE			
1.	Type IV, 51 mm/min		

2.	Type IV, 51 mm/min
3.	13 mm/min
4.	Type 1 specimen
5.	Rate A (50°C/h), Loading 1 (10 N)

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#### Recommended distributors for this material

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