

Marlex® 9006

High Density Polyethylene
Chevron Phillips Chemical Company LLC

Message:

Marlex® 9006 is a High Density Polyethylene material. It is available in Europe, Latin America, or North America for extrusion or injection molding. Important attributes of Marlex® 9006 are:

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

Typical applications include:

- Automotive
- Caps/Lids/Closures
- Containers
- Foam
- Food Contact Applications

General Information			
Features	Durable		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Stiffness		
	Hexene Comonomer		
	Medium Flow		
	Recyclable Material		
Uses	Automotive Applications		
	Foam		
	Lids		
	Pails		
Agency Ratings	ASTM D 4976-PE233		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.6	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	20.0	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 ¹ (Yield, Compression Molded)	28.0	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	950	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	1270	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	125	°C	ASTM D1525 ⁴
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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