

Marlex® 1009

Low Density Polyethylene
Chevron Phillips Chemical Company LLC

Message:

Marlex® 1009 is a Low Density Polyethylene material. It is available in Latin America or North America for extrusion or injection molding. Important attributes of Marlex® 1009 are:

- Food Contact Acceptable
- Good Flexibility
- Homopolymer
- Sterilizable
- Warp Resistant

Typical applications include:

- Caps/Lids/Closures
- Food Contact Applications
- Household Applications
- Medical/Healthcare

General Information			
Features	Autoclavable		
	Food Contact Acceptable		
	Good Flexibility		
	Good Flow		
	Homopolymer		
	Low Warpage		
Uses	Caps		
	Household Goods		
	Personal Care		
Agency Ratings	ASTM D 4976-PE112		
	FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.917	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	16	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	46		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹ (Yield, Compression Molded)	9.00	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	500	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	200	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-54.0	°C	ASTM D746A
Vicat Softening Temperature	85.0	°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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