

Marlex® 1412

Low Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

Marlex® 1412 is a Low Density Polyethylene material. It is available in Latin America or North America for extrusion or injection molding.

Important attributes of Marlex® 1412 are:

Food Contact Acceptable

Good Flexibility

High Flow

Homopolymer

Sterilizable

Typical applications include:

Caps/Lids/Closures

Food Contact Applications

General Information			
Features	Autoclavable Food Contact Acceptable Good Flexibility High Flow Homopolymer Low Warpage		
Uses	Caps Lids		
Agency Ratings	ASTM D 4976-PE111 FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Processing Method	Extrusion Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	35	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	11.0	MPa	ASTM D638

Tensile Elongation ² (Break, Compression Molded)	150	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	330	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-42.0	°C	ASTM D746A
Vicat Softening Temperature	92.0	°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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