

Marlex® 9004

High Density Polyethylene
Chevron Phillips Chemical Company LLC

Message:

Marlex® 9004 is a High Density Polyethylene material. It is available in Latin America or North America for injection molding.
Important attributes of Marlex® 9004 are:
Eco-Friendly/Green
Food Contact Acceptable
Good Stiffness
Hexene Comonomer
Impact Resistant
Typical applications include:
Containers
Caps/Lids/Closures
Food Contact Applications

General Information			
Features	Durable Food Contact Acceptable Good Impact Resistance Good Stiffness Hexene Comonomer Medium Flow Recyclable Material		
Uses	Drums Lids Pails		
Agency Ratings	ASTM D 4976-PE233 FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	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)	4.5	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)	63		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)	1000	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	1340	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	126	°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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