

# Marlex® 9708

High Density Polyethylene  
Chevron Phillips Chemical Company LLC

Message:

Marlex® 9708 is a High Density Polyethylene material. It is available in Europe, Latin America, or North America for injection molding.  
Important attributes of Marlex® 9708 are:  
Eco-Friendly/Green  
Food Contact Acceptable  
Good Stiffness  
Homopolymer  
Impact Resistant  
Typical applications include:  
Containers  
Foam  
Food Contact Applications

General Information			
Features	Durable		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Stiffness		
	Homopolymer		
	Medium Flow		
	Recyclable Material		
Uses	Crates		
	Structural Foam		
	Tool/Tote Box		
Agency Ratings	ASTM D 4976-PE243		
	FDA 21 CFR 177.1520(c) 3.2a 2		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	< 10.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength <sup>1</sup> (Yield, Compression Molded)	32.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, Compression Molded)	800	%	ASTM D638
Flexural Modulus - Tangent <sup>3</sup> (Compression Molded)	1580	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, Compression Molded	66.0	°C	
1.8 MPa, Unannealed, Compression Molded	49.0	°C	
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	127	°C	ASTM D1525 <sup>4</sup>
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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