

Marlex® HHM 5202BN

High Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

Marlex® HHM 5202BN is a High Density Polyethylene material. It is available in Europe, Latin America, or North America for blow molding.

Important attributes of Marlex® HHM 5202BN are:

- Food Contact Acceptable
- Good Processability
- Good Stiffness
- Hexene Comonomer
- High ESCR (Stress Crack Resistant)
- Typical applications include:
 - Containers
 - Medical/Healthcare
 - Bottles
 - Consumer Goods
 - Food Contact Applications

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Good Stiffness		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Bottles		
	Containers		
	Household Goods		
	Industrial Containers		
	Personal Care		
	Toys		
Agency Ratings	ASTM D 4976-PE235		
	DMF Unspecified Rating		
	FDA 21 CFR 177.1520(c) 3.2a 2		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			

100% Igepal, Compression Molded, F50	50.0	hr	ASTM D1693A
100% Igepal, Compression Molded, F50	50.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	26.9	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	600	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	1310	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ⁴	< -75.0	°C	ASTM D746A
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		
3.	13 mm/min		
4.	Type I specimen		

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Recommended distributors for this material

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