

Marlex® HHM 5202BN

High Density Polyethylene

Saudi Polymers Company

Message:

This high molecular weight, hexene copolymer is tailored for light weight blow moulded containers that require:

Excellent stiffness

Good ESCR

Exceptional processability

Typical blow moulded applications for HHM 5202BN include:

Bleach

Personal care products

Industrial chemicals

Toys

General Information			
Features	Rigid, good		
	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	Copolymer		
	hexene comonomer		
	Workability, good		
	Compliance of Food Exposure		
Uses	Blow molding applications		
	Personal care		
	Industrial container		
	Container		
	Toys		
Agency Ratings	ASTM D 4976-PE235		
	DMF not rated		
	FDA 21 CFR 177.1520(c) 3.2a		
	Europe No 10/2011		
Forms	Particle		
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 D1693B
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹ (Yield, Compression Molded)	26.0	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	600	%	ASTM D638
Flexural Modulus - Tangent (Compression Molded)	1310	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ³	< -75.0	°C	ASTM D746A

Additional Information

The physical properties were determined on compression moulded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

NOTE

1. Type 4, 51mm/min
2. Type 4, 51mm/min
3. Type I specimen

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