

# Marlex® HHM 5502BN

High Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

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

Excellent stiffness

Exceptional processability

Typical blow moulded applications for HHM 5502BN include:

Household chemicals

Industrial chemicals

Pharmaceuticals

Toolboxes

Furniture

General Information			
Features	Rigid, good		
	High molecular weight		
	Copolymer		
	hexene comonomer		
	Workability, good		
	Compliance of Food Exposure		
Uses	Blow molding applications		
	Tools/Parts Box		
	Industrial container		
	Furniture		
	Household goods		
	Container		
	Drug		
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	0.955	g/cm <sup>3</sup>	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)	35.0	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 <sup>1</sup> (Yield, Compression Molded)	27.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, Compression Molded)	600	%	ASTM D638
Flexural Modulus - Tangent (Compression Molded)	1370	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	79.0	°C	ASTM D648
Brittleness Temperature <sup>3</sup>	< -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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