

# Marlex® HHM 5502-01ST

High Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

Marlex® HHM 5502-01ST is a High Density Polyethylene material. It is available in Latin America or North America for blow molding, compression molding, extrusion, or thermoforming.

Important attributes of Marlex® HHM 5502-01ST are:

- Good Processability
- Eco-Friendly/Green
- Good Stiffness
- Hexene Comonomer
- High Molecular Weight
- Typical applications include:
  - Containers
  - Food Contact Applications
  - Medical/Healthcare
  - Packaging

General Information			
Features	Durable		
	Good Processability		
	Good Processing Stability		
	Good Stiffness		
	Hexene Comonomer		
	High Molecular Weight		
	Recyclable Material		
Uses	Blow Molding Applications		
	Food Containers		
	Packaging		
	Tool/Tote Box		
Agency Ratings	ASTM D 4976-PE235		
	DMF Unspecified Rating		
	FDA 21 CFR 177.1520(c) 3.2a 2		
Forms	Pellets		
Processing Method	Blow Molding		
	Compression Molding		
	Extrusion		
	Thermoforming		
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)	0.25	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
100% Igepal, Compression Molded, F50	45.0	hr	ASTM D1693A
100% Igepal, Compression Molded, F50	35.0	hr	ASTM D1693B
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 <sup>3</sup> (Compression Molded)	1370	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746A
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		
3.	13 mm/min		

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

