



High Density Polyethylene Resin

Technical Data Sheet

Marlex[®] HHM 5502BN

This high molecular weight hexene copolymer is tailored for lightweight blow molded containers that require:

- Excellent stiffness
- Exceptional processability
- Exceptional stress cracking resistance

Typical applications include:

- Ice chest & coolers
- Household & industrial chemical containers
- Food packaging & pharmaceutical containers
- Bleach & detergents containers

This resin meets these specifications:

- ASTM D4976 – PE 235
- FDA Regulations 21 CFR 177.1520.
- Suitable for food packaging
- Listed in the Drug Master File

Nominal Physical Properties *	ASTM	Unit	Value
Density	D1505	g/cm ³	0.955
Melt Index, Condition 190°C/ 2.16 kg	D1238	g/10min	0.35
HLMI, Condition 190°C/21.6 kg	D1238	g/10min	33
ESCR			
Condition A, F ₅₀ (100% Igepal)	D1693	h	45
Condition B, F ₅₀ (100% Igepal)	D1693	h	35
Tensile Yield Strength, 50 mm/ min	D638 Type IV	MPa	27
Elongation at Break, 50 mm/ min	D638 Type IV	%	>600
Brittleness Temperature	D746	°C	<-75
Flexural Modulus, Tangent	D790	MPa	1370
Shore D Hardness	D2240	-	63

* The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded. The physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D4703, Annex A1.

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