



Formosa Plastics®

Formolene® HDPE

Formolene® LH5207

High Density Polyethylene (HDPE) Resin for Injection Molding

Formolene® LH5207 is a hexene based HDPE injection molding resin designed for toughness and good impact strength. Formolene® LH5207 offers excellent stiffness-toughness balance ideally recommended for applications requiring physical performance and a good impact.

Formolene® LH5207 meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520 for food packaging, covering safe use of polyolefin articles intended for direct food contact.

Suggested Applications:

Industrial Components

Industrial Closures

Automotive Components

Waste Carts

Recreational Vehicle Components

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D1505	g/cm ³	0.952	g/cm ³	0.952
Melt Index, (190°C/2.16kg)	D1238	g/10 min.	7.0	g/10 min.	7.0
Tensile Strength at Yield	D638	psi.	3900	MPa	26.9
Tensile Yield Elongation	D638	%	8.0	%	8.0
Flexural Modulus (2% Secant)	D790B	psi.	160,000	MPa	1100
Environmental Stress Crack Resistance (100% Igepal, 50°C, F50)	D1693	hr	20	hr	20
Deflection Temperature Under Load (66psi)	D648	°F	164	°C	73
Shore Hardness (Shore D)	D2240	-	68	-	68
Vicat Softening Temperature	D1525	°F	257	°C	125

Note: All properties were derived from compression molded specimens. Actual properties may vary depending on operating conditions and additive packages. Properties are not intended to be used as specifications.

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