



Formosa Plastics®

Formolene® HDPE

Formolene® LH6008U

High Density Polyethylene (HDPE) Resin with UV stabilizer for Injection Molding

Formolene® LH6008U is a homopolymer HDPE injection molding resin designed for toughness and good impact strength. Formolene® LH6008U offers excellent stiffness-toughness balance ideally recommended for applications requiring physical performance and a good impact.

Formolene® LH6008U 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 Crates

Totes and Bins

Small Appliances

Additives:

UV stabilizer

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D1505	g/cm ³	0.965	g/cm ³	0.965
Melt Index, (190°C/2.16 kg)	D1238	g/10 min.	8.0	g/10 min.	8.0
Tensile Strength at Yield	D638	psi.	4700	MPa	32
Tensile Yield Elongation	D638	%	6.0	%	6.0
Flexural Modulus (2% Secant)	D790B	Psi.	225,000	MPa	1550
Environmental Stress Crack Resistance (100% Igepal, 50°C F50)	D1693	hr	2	hr	2
Deflection Temperature Under Load (66psi)	D648	°F	187	°C	86
Shore Hardness (Shore D)	D2240	-	69	-	69
Vicat Softening Temperature	D1525	°F	264	°C	129

Note: The physical 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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