Formosa Plastics®

Formolene® HDPE

Formolene® LH5420

High Density Polyethylene (HDPE) Resin for Injection Molding

Formolene® LH5420 is a hexene based HDPE injection molding resin designed for toughness, good impact strength and fast cycle time. Formolene® LH5420 offers excellent stiffness-toughness balance ideally recommended for applications requiring physical performance and a good impact.

Formolene® LH5420 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:

Bins and Crates	Food Packaging Containers	Protective Caps
Closures and Dispensers	Housewares	

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	ENGLISH Unit	ENGLISH Value	SI Unit	SI Value
Density	D1505	g/cm^3	0.954	g/cm^3	0.954
Melt Index, (190°C/2.16 kg)	D1238	g/10 min.	20	g/10 min.	20
Tensile Strength at Yield	D638	psi.	4000	MPa	27.6
Tensile Yield Elongation	D638	%	6.0	%	6.0
Flexural Modulus (2% Secant)	D790B	psi.	170,000	MPa	1170
Environmental Stress Crack Resistance (100% Igepal, 50°C, F50)	D1693	hr	3	hr	3
Deflection Temperature Under Load (66psi)	D648	°F	163	°C	73
Shore Hardness (Shore D)	D2240	-	68	-	68
Vicat Softening Temperature	D1525	°F	252	°C	122

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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