



Formolene® HJ5420

High Density Polyethylene (HDPE) Resin for Injection Molding

Formolene® HJ5420 is a high density injection molding resin designed for toughness and stiffness especially at low temperatures.

Formolene® HJ5420 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

Suggested Applications:

Houseware Articles

Food Packaging

Toys

Additives:

Antioxidant – Yes

Nominal Values

PROPERTY*	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D1505	g/cc	0.954	g/cc	0.954
Melt Index, (190°C/2.16)	D1238	g/10 min.	20.0	g/10 min.	20.0
Molded Properties					
Tensile Strength					
Yield	D638	psi.	3700	MPa	26
Tensile Elongation					
Break	D638	%	270	%	270
Flexural Modulus	D790B				
1% Secant		psi.	180000	MPa	1300
2% Secant		psi.	160000	MPa	1100
Environmental Stress Crack Resistance	D1693B				
10% Igepal, F50		hr	< 1	hr	< 1
Notched Izod Impact (-40°F)	D256A	Ft-lb/in.	0.61	J/m	32

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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