

HD50-4500

High Density Polyethylene

HD50-4500 Is a narrow molecular weight Hexene Copolymer designed to maximize injection molding speed and productivity in thin wall articles. Lower processing temperatures enable production of products free of taste and odor for food and beverage packaging. **HD50-4500** complies with FDA regulation 21CFR 177.1520 (c) 3.1 (a) + 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

PROPERTIES	ASTM	UNIT	NOMINAL VALUES
PHYSICAL			
Melt Flow Rate (190 °C, 2.16kg)	D1238	g/10 min	45
Density	D1505	g/cm ³	0.950
MECHANICAL			
Flexural Modulus ¹	D790	MPa	146,000
Tensile Strength @ Yield ²	D638	MPa	24
Elongation @ Break ²	D638	%	>100
ESCR	D1693	Hr	10
Notched Izod Impact	D256	ft-In/in	.7
Heat Deflection Temp (Method A)	D648	°C	45

Typical Value of Properties not to be construed as specifications

* Test Made on injection molded Type 1 tension test specimen according to ASTM D2146

1 - @ 0.051 in/min

2 - @ 2 in/min.



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