

## LLC4-500

### Linear Low Density Polyethylene

**LLC4-500** is a certified prime grade, containing Butene-ethylene copolymer designed for High-Flow INJECTION MOLDING of thin-walled high quality applications. **LLC4-500** features superior processability over a wide range of molding conditions, fast cycle times, very good rigidity, high gloss surface, low temperature toughness, and warpage free moldings. **LLC4-500** applications include housewares, margarine tubs, small to medium containers, trash cans, toys, and multicavity lids, closures and caps, where excellent toughness, good impact strength and high gloss are required. Recommended processing temperature is 170 to 210°C., with mold at 20 to 40°C. **LLC4-500** complies with FDA regulation 21CFR 177.1520 (c) 3.1 (a) and most international regulations concerning the use of Polyethylene in contact with food articles.

PROPERTIES	ASTM	UNIT	NOMINAL VALUES
<b>PHYSICAL</b>			
Melt Flow Rate (190 °C, 2.16kg)	D1238	g/10 min	55
Density	D1505	g/cm <sup>3</sup>	0.926
Env. Stress Crack Resistance (122 °F, F50)	D1693	hr	5.00
<b>MECHANICAL</b>			
Flexural Modulus <sup>1</sup> (1% Secant)	D790	psi	75k
Tensile Strength @ Yield <sup>2</sup>	D638	psi	2000
Tensile Impact Strength	D1822	ft-lb/in <sup>3</sup>	25.0
Tensile Elongation @ Break <sup>2</sup>	D638	%	100

Typical Value of Properties not to be construed as specifications

1 - @ 0.051 in/min

2 - @ 2 in/min.

