

# Certene LDI-4023

## LOW DENSITY POLYETHYLENE

LDI-4023 is a certified prime grade specially designed for High-Flow INJECTION MOLDING applications requiring good balance of mechanical and low warpage properties.

LDI-4023 features very good processability over a wide range of molding conditions, good clarity, excellent flexibility, and high surface appearance of molded articles.

LDI-4023 applications include housewares, lids, closures, overcaps, medical parts, and general purpose molded articles.

Recommended processing temperature is 170 to 220°C., with mold at 20 to 40°C.

Meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, and with the European standards 85/572/EEC, 90/128/EEC y 97/48/EEC covering safe use of polyolefin articles intended for direct food contact.

### Typical Properties

PROPERTIES*	ASTM TEST	UNIT ENGLISH (METRIC)	NOMINAL VALUES
<b>RESIN</b>			
Melt Index	D 1238E	gr./10 min	40
Density	D 1505	gr./cm <sup>3</sup>	0.923
<b>MOLD SPECIMEN*</b>			
Tensile Strength @Yield <sup>2</sup>	D 638	psi (MPa)	2000 (14)
Flexural Modulus <sup>1</sup>	D 790	psi (MPa)	46000 (317)
Ultimate Elongation <sup>2</sup>	D 638	%	50
Tensile Impact	D 1822	ft.lb/in. <sup>2</sup> (kJ/m <sup>2</sup> )	35 (73)
Low temp. brittleness	D 746	°C.	0
Vicat softening point	D 1525	°C.	88

**TYPICAL VALUE OF PROPERTIES NOT TO BE CONSTRUED AS SPECIFICATIONS.**

\* - Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.

1 - 1% secant @ 1.3 mm/min. speed.

2 - @ 50 mm/min. speed.

\*\*\* The reported values are typical and do not constitute a warranty but a guide for the diverse application possibilities.