



# DOW™ LDPE 993I

A medium molecular weight distribution homopolymer designed to offer good gloss and rigidity with excellent flow characteristics. This resin has good processability over a wide range of molding conditions.

## Physical Properties

MEASUREMENT	CONDITION	Value
Density	ASTM D792	0.923g/cm <sup>3</sup>
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	ASTM D1238	25g/10 min
Environmental Stress-Cracking Resistance (ESCR) (122°F, 100% Igepal, F50)	ASTM D1693	< 1.00hr

## Hardness Properties

MEASUREMENT	CONDITION	Value
Durometer Hardness (Shore D)	ASTM D2240	43

## Mechanical Properties

MEASUREMENT	CONDITION	Value
Tensile Strength Yield Break	ASTM D638	1500psi 1700psi
Tensile Elongation Yield Break	ASTM D638	3.0% 40%
Flexural Modulus - 2% Secant	ASTM D790	46000psi

## Features

- Low Density Polyethylene (LDPE)
- Typical applications include toys, lids, and closures
- Good gloss, rigidity, excellent flow
- Complies with U.S. FDA 21 CFR 177.152 (c) 2.1
- Complies with Canadian HPFB No Objection (With Limitations)
- Complies with EU, No 10/2011

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## Impact Properties

MEASUREMENT	CONDITION	Value
Notched Izod Impact (73°F)	ASTM D256	7.9ft·lb/in
Tensile Impact Strength <sup>2</sup>	ASTM D1822	120ft·lb/in <sup>2</sup>

## Thermal Properties

MEASUREMENT	CONDITION	Value
Deflection Temperature Under Load (66 psi, Unannealed)	ASTM D648	104°F
Brittleness Temperature	ASTM D746	-29.0°F
Vicat Softening Temperature	ASTM D1525	199°F
Melting Temperature (DSC)	Internal Method	230°F
Peak Crystallization Temperature (DSC)	Internal Method	212°F

### Additional Information

Plaque molded and tested in accordance with ASTM D4976.

### Notes

<sup>2</sup>Type S

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