



DOW™ LDPE 959S

DOW Polyethylene 959S Low Density Resin is a medium molecular weight distribution homopolymer. This resin has good processability over a wide range of molding conditions.

Physical Properties

MEASUREMENT	CONDITION	Value
Density / Specific Gravity	ASTM D792	0.925
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	ASTM D1238	55 g/10 min
Environmental Stress-Cracking Resistance (ESCR) (122°F, 100% Igepal, F50)	ASTM D1693	< 1.00 hr

Hardness Properties

MEASUREMENT	CONDITION	Value
Durometer Hardness (Shore D)	ASTM D2240	48

Mechanical Properties

MEASUREMENT	CONDITION	Value
Tensile Strength Yield Break	ASTM D638	1600 psi 900 psi
Tensile Elongation Yield Break	ASTM D638	3.0 % 58 %
Flexural Modulus - 2% Secant	ASTM D790	48000 psi

Features

- Low Density Polyethylene (LDPE)
- Typical applications include lids
- Excellent clarity, flexibility, low warpage
- Complies with U.S. FDA 21 CFR 177.1520 (c) 2.1.
- Complies with Canadian HPFB No Objection (With Limitations)

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Impact Properties

MEASUREMENT	CONDITION	Value
Tensile Impact Strength ²	ASTM D1822	56.0 ft·lb/in ²

Thermal Properties

MEASUREMENT	CONDITION	Value
Deflection Temperature Under Load (66 psi, Unannealed)	ASTM D648	115°F
Brittleness Temperature	ASTM D746	-4.00°F
Vicat Softening Temperature	ASTM D1525	194°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

²Type S

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