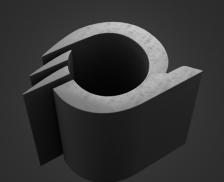


DOW™ LDPE 959S



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

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)

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

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Impact Properties

MEASUREMENT	CONDITION	Value
Tensile Impact Strength ²	ASTM D1822	56.0 ft·lb/in²

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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