

DOW™ LDPE 959S

Low Density Polyethylene Resin
The Dow Chemical Company

Message:

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)
Consult the regulations for complete details.
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.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
	HPFB (Canada) No Objection 2		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	55	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	< 1.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	48		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	11.0	MPa	ASTM D638
Fracture	6.21	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	ASTM D638
Fracture	58	%	ASTM D638
Flexural Modulus - 2% Secant	331	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ¹	118	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	46.1	°C	ASTM D648
Brittleness Temperature	-20.0	°C	ASTM D746
Vicat Softening Temperature	90.0	°C	ASTM D1525
Melting Temperature (DSC)	110	°C	Internal method

Peak Crystallization Temperature (DSC)	100	°C	Internal method
Additional Information			
根据 ASTM D 4976 进行基板模制和测试.			
NOTE			
1.	Type s		

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