

DOW™ LDPE 993I

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

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

Consult the regulations for complete details

DOW Polyethylene 993I Low Density Polyethylene Resin is 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.

General Information			
Additive	Sliding agent (400 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
	HPFB (Canada) No Objection 2		
	Europe No 10/2011		
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)	25	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)	43		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	10.3	MPa	ASTM D638
Fracture	11.7	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	ASTM D638
Fracture	40	%	ASTM D638
Flexural Modulus - 2% Secant	317	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	420	J/m	ASTM D256
Tensile Impact Strength ¹	252	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	40.0	°C	ASTM D648
Brittleness Temperature	-33.9	°C	ASTM D746
Vicat Softening Temperature	92.8	°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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