

DOW™ LDPE 955I

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

Low Density Polyethylene (LDPE)

Typical applications include lids, caps/closures, general purpose

Excellent clarity

Complies with U.S. FDA 21 CFR 177.1520 (c) 2.1.

Complies with U.S. FDA -DMF.

Complies with U.S. USP

Complies with Canadian HPFB No Objection (With Limitations)

Complies with EU, No 10/2011

Consult the regulations for complete details.

DOW Polyethylene 955I Low Density is a medium molecular weight distribution homopolymer designed to offer excellent clarity and flexibility and good toughness with low warpage. This resin has good processability over a wide range of molding conditions.

General Information			
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 2.1		
	HPFB (Canada) No Objection 2		
	USP Not Rated		
	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)	35	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)	45		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	9.65	MPa	ASTM D638
Fracture	6.89	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.0	%	ASTM D638
Fracture	90	%	ASTM D638
Flexural Modulus - 2% Secant	296	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ¹	252	kJ/m ²	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	38.9	°C	ASTM D648
Brittleness Temperature	-40.0	°C	ASTM D746
Vicat Softening Temperature	95.0	°C	ASTM D1525
Melting Temperature (DSC)	112	°C	Internal method
Peak Crystallization Temperature (DSC)	96.1	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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