

DOW™ LDPE PG 7008 (Durables)

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW LDPE™ PG 7008 Polyethylene Resin from Dow has been designed to exhibit good processability, balanced physical properties, good rigidity and surface gloss, and excellent organoleptics when it is properly injection moulded.

Complies with:

U.S. FDA 21 CFR 177.1520(c)2.2

EU, No 10/2011

Canadian HPFB No Objection

Consult the regulations for complete details.

Applications:

Housewares

Toys

Containers

Caps

General Information			
Agency Ratings	EU No 10/2011 FDA 21 CFR 177.1520(c) 2.2 HPFB (Canada) No Objection		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.7	g/10 min	ISO 1133
Spiral Flow	105	cm	Internal Method
Molding Shrinkage - Flow ¹ (220°C)	2.6	%	ASTM D955
Environmental Stress-Cracking Resistance ² (50°C, 0.5% Antarox, Compression Molded)	9.20	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	9.00	MPa	
Break, Compression Molded	10.0	MPa	
Tensile Elongation (Break, Compression Molded)	350	%	ASTM D638
Flexural Modulus - 2% Secant (Compression Molded)	200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Tensile Impact Strength (Compression Molded)	145	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	89.0	°C	ISO 306/A

NOTE

- 0.5 seconds injection.
- Notched

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