

# DOW™ LDPE PG 7004 (Injection Molding)

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW LDPE™ PG 7004 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

U.S. FDA-DMF

EU, No 10/2011

Canadian HPFB No Objection

Consult the regulations for complete details.

Applications:

Housewares.

Toys.

Containers.

Lids.

Caps.

General Information			
Agency Ratings	DMF Unspecified Rating		
	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	0.922	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.1	g/10 min	ISO 1133
Spiral Flow	94.0	cm	Internal Method
Molding Shrinkage - Flow <sup>1</sup> (220°C)	3.0	%	ASTM D955
Environmental Stress-Cracking Resistance <sup>2</sup> (50°C, 0.5% AntaroX, Compression Molded)	4.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	51		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	12.0	MPa	
Ultimate, Compression Molded	8.00	MPa	
Tensile Elongation (Break, Compression Molded)	220	%	ASTM D638

Flexural Modulus - 2% Secant (Compression Molded)	230	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	100	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°C	ASTM D1525
NOTE			
1.	0.5 seconds injection		
2.	Notched		

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