

DOW™ HDPE DMDB-7950 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

Injection molding

Roll-out trash carts and other large parts

Excellent impact strength, stress crack resistance and processability

Very narrow molecular weight distribution

Complies with:

U.S. FDA 21 CFR 177.1520 (c) 3.1a

Canadian HPFB No Objection

Consult the regulations for complete details.

DOW DMDB-7950 NT 7 High Density Polyethylene (HDPE) Resin is intended for use in injection molding applications such as roll-out trash carts and other large parts with short molding cycles. It is produced via UNIPOL™ Process Technology from Dow and has been designed to meet the rigorous performance characteristics of impact resistance, environmental stress crack resistance, stiffness, and low warpage, while maintaining excellent moldability.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	HPFB (Canada) No Objection		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.948	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.8	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	40.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	54		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	24.8	MPa	
Break, Compression Molded	26.2	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	8.0	%	
Break, Compression Molded	1200	%	
Flexural Modulus - 2% Secant (Compression Molded)	1010	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ¹ (Compression Molded)	105	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	67.8	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525
Melting Temperature (DSC)	130	°C	Internal Method
Peak Crystallization Temperature (DSC)	118	°C	Internal Method

NOTE

1. Type S

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