

# DOW™ LLDPE DNDB-7147 NT 7

Linear Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

Preparation of DNDB-7147 NT 7 Linear Low Density Polyethylene (LLDPE) Resin Using UNIPOL™PE process technology for injection molding such as food containers, household appliances and cover materials. This resin has an excellent balance between impact strength, rigidity, environmental stress cracking resistance and processability.

Main features:

injection molding

Excellent low-temperature impact strength, rigidity, stress cracking resistance and processability

Very narrow molecular weight distribution

Comply with the requirements of FDA Regulation 21 CFR 177.1520(c)3.1a

please check the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	HPFB (Canada) No Objection 2		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.926	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	50	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	5.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	9.65	MPa	ASTM D638
Fracture	7.58	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	ASTM D638
Fracture	120	%	ASTM D638
Flexural Modulus - 2% Secant	421	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength <sup>1</sup>	189	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	45.0	°C	ASTM D648
Brittleness Temperature	-76.1	°C	ASTM D746
Vicat Softening Temperature	90.0	°C	ASTM D1525

Melting Temperature (DSC)	124	°C	Internal method
Peak Crystallization Temperature (DSC)	109	°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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