

DOW™ LLDPE DNDB-1077 NT 7

The Dow Chemical Company - Linear Low Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

- · Injection molding
- Lids
- · Excellent processability with good low temperature impact strength
- · Very narrow molecular weight distribution
- Complies with U.S. FDA 21 CFR 177.1520 (c)3.1a
- Complies with CANADIAN HPFB NO OBJECTION (With Limitiations)
- Complies with EU, No 10/2011
- · Consult the regulations for complete details.

DOW DNDB-1077 NT 7 Linear Low Density Polyethylene (LLDPE) Resin is produced using UNIPOL™ PE Process Technology and is intended for highspeed injection molding of thin-walled parts such as downgauged lids. This resin has been designed to have an excellent balance of processability and impact strength.

General			
Material Status	Commercial: Active		
Availability	 Latin America 	North America	
Agency Ratings	• EU No 10/2011	 FDA 21 CFR 177.1520(c) 3.1a HPFB (Canada) No Objection ¹ 	
Forms	 Pellets 		
Processing Method	 Injection Molding 		

ACTM 9 ICO Dramartica 2

Physical	Nominal Value Unit		Test Method
Density / Specific Gravity	0.931		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	100	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
122°F, 100% Igepal, F50	< 1.00	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	1600	psi	ASTM D638
Tensile Strength (Break)	1200	psi	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus - 2% Secant	76000	psi	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ³	80.0	ft·lb/in²	ASTM D1822
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	53		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	117	°F	ASTM D648
Brittleness Temperature	-22.0	°F	ASTM D746
Vicat Softening Temperature	205	°F	ASTM D1525
Melting Temperature (DSC)	259	°F	Internal Method
Peak Crystallization Temperature (DSC)	234	°F	Internal Method
Additional Information			

Plaque molded and tested in accordance with ASTM D4976.



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Notes

¹ With limitations

 $^{\rm 2}$ Typical properties: these are not to be construed as specifications.

³ Type S

