

DOW™ LLDPE DNDA-7144 NT 7

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

Injection molding

Large industrial containers and trash cans

Excellent low temperature impact strength, rigidity, stress crack resistance and processability

Very narrow molecular weight distribution

Complies with

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

CANDIAN HPFB NO OBJECTION (WITH LIMITATIONS)

EU, No 10/2011

U.S. FDA -DMF

Consult the regulations for complete details.

DOW DNDA-7144 NT 7 Linear Low Density Polyethylene (LLDPE) Resin is produced using UNIPOL™ PE Process Technology and is intended for use in injection molding applications such as large industrial containers and trash cans. This resin has been designed to have excellent impact strength, rigidity, environmental stress crack resistance and processability.

General Information			
Agency Ratings	DMF not rated		
	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	0.924	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	20.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	11.7	MPa	ASTM D638
Fracture	7.58	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	ASTM D638
Fracture	60	%	ASTM D638
Flexural Modulus - 2% Secant	386	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ¹	168	kJ/m ²	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	42.8	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	93.9	°C	ASTM D1525
Melting Temperature (DSC)	123	°C	Internal method
Peak Crystallization Temperature (DSC)	108	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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