

# DOW™ LLDPE GRSN-9820 NT 7

Linear Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

Granular form

Carrier resin for masterbatch systems

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

Complies with EU, No 10/2011

Consult the regulations for complete details.

DOW GRSN-9820 NT 7 Linear Low Density Polyethylene (LLDPE) Resin is produced using UNIPOL™ PE Process Technology and is supplied in granular form. This resin is specifically designed as a carrier resin for color concentrates and other masterbatch systems. The fine particle size reduces the need for grinding, and the high surface area of granular resin allows for more uniform dispersion of concentrate in the final product. GRSN-9820 NT 7 is compatible with polyethylene and polypropylene resins and can be used in a wide variety of fabrication processes.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	Europe No 10/2011		
Forms	Particles		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.924	g/cm <sup>3</sup>	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 <sup>1</sup>	168	kJ/m <sup>2</sup>	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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