

## Dow GRSN-9820 NT 7 Linear Low Density Polyethylene Granular Solid

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

### Material Notes:

DOW GRSN-9820 NT 7 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 master batch 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. Information provided by Dow

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-GRSN-9820-NT-7-Linear-Low-Density-Polyethylene-Granular-Solid.php](http://www.lookpolymers.com/polymer_Dow-GRSN-9820-NT-7-Linear-Low-Density-Polyethylene-Granular-Solid.php)

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in <sup>3</sup>	ASTM D792
ESCR 100% Igepal®	20 hour @Temperature 50.0 °C	20 hour @Temperature 122 °F	F <sub>50</sub> ; Molded and tested in accordance with ASTM D4976; ASTM D1693
Melt Index of Compound	20 g/10 min @Load 2.16 kg, Temperature 190 °C	20 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	7.58 MPa	1100 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	11.7 MPa	1700 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Break	60 %	60 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	0.386 GPa	56.0 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	168 kJ/m <sup>2</sup>	80.0 ft-lb/in <sup>2</sup>	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Dow Method (DSC)
Crystallization Temperature	108 °C	226 °F	Dow Method (DSC)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	42.8 °C	109 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	93.9 °C	201 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

## Contact Songhan Plastic Technology Co.,Ltd.

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