

## Dow DMDA-8920 NT 7 High Density Polyethylene Resin

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

### Material Notes:

DOW DMDA-8920 NT 7 is produced using UNIPOL™ process technology. It is intended for use in a broad range of injection molding applications such as housewares, toys, food containers and pails. Information provided by Dow

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-DMDA-8920-NT-7-High-Density-Polyethylene-Resin.php](http://www.lookpolymers.com/polymer_Dow-DMDA-8920-NT-7-High-Density-Polyethylene-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in <sup>3</sup>	ASTM D792
ESCR 100% Igepal®	3.0 hour @Temperature 50.0 °C	3.0 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	57	57	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	13.8 MPa	2000 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	28.3 MPa	4100 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Break	250 %	250 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Yield	7.0 %	7.0 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	1.15 GPa	167 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	42.0 kJ/m <sup>2</sup>	20.0 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	130 °C	266 °F	Dow Method (DSC)
Crystallization Temperature	117 °C	243 °F	Dow Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	72.8 °C	163 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	127 °C	261 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
Brittleness Temperature	≤ -76.4 °C	≤ -108 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China