

## Dow DNDB-1077 NT 7 Linear Low Density Polyethylene Resin

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

### Material Notes:

DOW DNDB-1077 NT 7 is produced using UNIPOL™ PE process technology. It is intended for high-speed injection molding of thin walled parts such as downgaged lids. Information provided by Dow

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-DNDB-1077-NT-7-Linear-Low-Density-Polyethylene-Resin.php](http://www.lookpolymers.com/polymer_Dow-DNDB-1077-NT-7-Linear-Low-Density-Polyethylene-Resin.php)

| Physical Properties    | Metric   | English  | Comments  |
|------------------------|--|--|---|
| Density                | 0.929 g/cc   | 0.0336 lb/in <sup>3</sup>                            | ASTM D792   |
| ESCR 100% Igepal®      | <= 1.0 hour<br>@Temperature 50.0 °C                  | <= 1.0 hour<br>@Temperature 122 °F                   | F <sub>50</sub> ; Molded and tested in accordance with ASTM D4976; ASTM D1693 |
| Melt Index of Compound | 100 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 100 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM D1238  |

| Mechanical Properties     | Metric                | English                    | Comments  |
|---------------------------|-----------------------|----------------------------|---|
| Hardness, Shore D         | 53                    | 53                         | Molded and tested in accordance with ASTM D4976; ASTM D2240             |
| Tensile Strength at Break | 8.27 MPa              | 1200 psi                   | Molded and tested in accordance with ASTM D4976; ASTM D638              |
| Tensile Strength, Yield   | 11.0 MPa              | 1600 psi                   | Molded and tested in accordance with ASTM D4976; ASTM D638              |
| Elongation at Break       | 120 %                 | 120 %                      | Molded and tested in accordance with ASTM D4976; ASTM D638              |
| Elongation at Yield       | 2.0 %                 | 2.0 %                      | Molded and tested in accordance with ASTM D4976; ASTM D638              |
| Flexural Modulus          | 0.524 GPa             | 76.0 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                               | 126 °C  | 259 °F  | Dow Method (DSC)   |
| Crystallization Temperature                 | 112 °C  | 234 °F  | Dow Method (DSC)   |
| Deflection Temperature at 0.46 MPa (66 psi) | 47.2 °C | 117 °F  | Molded and tested in accordance with ASTM D4976; ASTM D648 |
| Vicat Softening Point                       | 96.1 °C | 205 °F  | ASTM D1525   |

| Thermal Properties      | Metric   | English  | Comments  |
|-------------------------|----------|----------|---|
| Brittleness Temperature | -38.8 °C | -22.8 °F | Molded and tested in accordance with<br>ASTM D4976; ASTM D746 |

## Contact Songhan Plastic Technology Co.,Ltd.

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