



## Luban DNDA-8320

### Linear Low Density Polyethylene

#### Description

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Luban DNDA-8320 is a narrow molecular weight distribution butene LLDPE grade intended for use in injection molded applications. This resin has been designed to have an excellent low temperature impact strength, rigidity, environmental stress crack resistance and processability.

#### Application

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Injection molded food containers, housewares and lids, shopping baskets

#### Properties (Typical Values)

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| Property                                                                   | Unit               | Test method | Value* |
|----------------------------------------------------------------------------|--------------------|-------------|--------|
| Melt Index (190°C/2.16 kg)                                                 | g/10 min           | ASTM D1238  | 20     |
| Density                                                                    | g /cm <sup>3</sup> | ASTM D792   | 0.924  |
| Environmental Stress-Cracking Resistance<br>122°F (50°C), 100% Igepal, F50 | hr                 | ASTM D1693  | 20     |
| Flexural Modulus - 2% Secant                                               | MPa                | ASTM D1822  | 386    |
| Tensile stress at yield                                                    | MPa                | ASTM D638   | 12     |
| Tensile elongation at yield                                                | %                  | ASTM D638   | 3      |
| Tensile stress at break                                                    | MPa                | ASTM D638   | 8      |
| Tensile elongation at break                                                | %                  | ASTM D638   | 60     |
| Tensile Impact Strength                                                    | kJ/m <sup>2</sup>  | ASTM D1822  | 168    |
| Melting Temperature (DSC)                                                  | °C                 | ASTM D3418  | 123    |
| Deflection Temperature Under Load<br>0.45 MPa, Unannealed                  | °C                 | ASTM D648   | 43     |
| Vicat Softening Temperature                                                | °C                 | ASTM D1525  | 93.9   |

\* Tests performed on plaque molded and tested in accordance with ASTM D4976.

**Note:** These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.



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#### Storage and Handling

Luban DNDA-8320 should be stored in well ventilate area during handling or processing of to prevent accumulation of dust and fumes. Avoid contact with strong oxidizers, excessive heat, sparks or open flame as this could well speed up alteration and consequently loss of quality of the material in which could lead to unforeseen dangers. The bags must be protected from direct sunlight and should be stored in shaded and completely dry area for good processing.

#### Safety

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Luban DNDA-8320 is not classified as dangerous preparation. For further information about safety in handling and processing please refer to the Safety Data Sheet.

#### Food Contact

Luban DNDA-8320 meets the requirements of the U.S. Food and Drug Administration (FDA) as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of articles intended for direct food contact. For additional information on approved conditions of use for food contact applications, please refer to the "Product Stewardship Declaration".

#### Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

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#### Disclaimer:

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