

## Technical Data Sheet

### *Icorene* N2100-2000 NAT



Low Density Polyethylene

#### Product Description

*Icorene* N2100 is a low density polyethylene resin designed for the production of medium/high voltage power cable insulation, blown film extrusion. This grade is characterized by a good balance between processability, mechanical and optical properties.

#### Regulatory Status

For regulatory compliance information, see *Icorene* N2100-2000 NAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|              |                                              |
|--------------|----------------------------------------------|
| Status       | Commercial: Active                           |
| Availability | Europe                                       |
| Attribute    | Good Optical Properties; Good Processability |
| Forms        | Powder                                       |
| Application  | Blown Film                                   |

| Typical Properties               | Nominal Value | Units             | Test Method |
|----------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                  |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg) | 2.0           | g/10 min          | ASTM D1238  |
| Density                          | 0.923         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                |               |                   |             |
| Tensile Strength at Yield        | 10            | MPa               | ASTM D638   |
| Flexural Modulus                 | 200           | MPa               | ASTM D790   |
| Tensile Elongation at Break      | 650           | %                 | ASTM D638   |
| <b>Hardness</b>                  |               |                   |             |
| Durometer Hardness, (Shore D)    | 46            |                   | ASTM D2240  |
| <b>Thermal</b>                   |               |                   |             |
| Vicat Softening Temperature      | 90            | °C                | ASTM D1525  |
| Peak Melting Temperature         | 110           | °C                | ASTM D3418  |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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