

Technical Data Sheet

**Icorene N2100**

Low Density Polyethylene
LyondellBasell Industries
Custom Powders

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.

General

Material Status	• Commercial: Active
Availability	• Europe
Features	• Good Optical Properties • Good Processability
Uses	• Blown Film • Medium Voltage Insulation
Forms	• Powder

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.923 g/cm ³	0.923 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	1450 psi	10.0 MPa	ASTM D638
Tensile Elongation (Break)	650 %	650 %	ASTM D638
Flexural Modulus	29000 psi	200 MPa	ASTM D790
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	46	46	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	194 °F	90.0 °C	ASTM D1525
Peak Melting Temperature	230 °F	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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

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