

Technical Data Sheet

**Icorene N3025**

Polybutylene
LyondellBasell Industries
Custom Powders

Product Description

ICORENE® N3025 is a powder version of polybutene -1 random copolymer with low ethylene content, specifically designed for use as a layer adhesive. The powder is free flowing and easy to distribute using a scatter coating machine.

This grade can be used in various applications as a hot melt adhesive. For example carpet backing or tuft locking or non woven lamination. It features very good adhesion to PP and PE polymer substrates and very low viscosity to give good melt flow around the fibers enabling superior mechanical adhesion. Recycling of the finished PP carpet is possible due to the complete miscibility of the PB1 in PP polymer.

MFR measured by ISO 1133-1 is 2500 g/10 minutes

General

Material Status	• Commercial: Active
Availability	• Europe
Additive	• Heat Stabilizer
Features	• Food Contact Acceptable • High Flow
Uses	• Adhesives
Forms	• Powder
Processing Method	• Scatter Coating

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.915 g/cm ³	0.915 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2500 g/10 min	2500 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Break)	2180 psi	15.0 MPa	ISO 8986-2
Tensile Strain (Break)	10 %	10 %	ISO 8986-2
Flexural Modulus	50800 psi	350 MPa	ISO 178
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature ¹	181 to 221 °F	83.0 to 105 °C	ISO 11357-3

Notes

¹ Tm 1 = 105C Tm 2 = 83C

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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