

Technical Data Sheet

**Icorene N3012**

Polybutylene
LyondellBasell Industries
Custom Powders

Product Description

ICORENE® N3012 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, non woven lamination. It features very good adhesion to PP and PE polymer substrates and very low viscosity to give good flow around the fibers enabling superior mechanical adhesion.

MFI measured by ISO 1133-1 is 1200 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)	1200 g/10 min	1200 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/>.

© LyondellBasell Industries Holdings, B.V. 2024

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

Technical Data Sheet

**Icorene N3012**

Polybutylene
LyondellBasell Industries
Custom Powders

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.