

Technical Data Sheet

**Icorene N4412**

Polypropylene Homopolymer
LyondellBasell Industries
Custom Powders

Product Description

ICORENE® N4412 is a medium high flow polypropylene homopolymer powder

Typical uses for this grade are in the production of PP masterbatch

General

Material Status	• Commercial: Active
Availability	• Europe
Features	• High Flow • Homopolymer
Uses	• Compounding • Masterbatch
Forms	• Powder

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.905 g/cm ³	0.905 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12 g/10 min	12 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	4640 psi	32.0 MPa	ISO 527-2
Tensile Elongation (Yield)	10 %	10 %	ISO 527-2
Flexural Modulus	210000 psi	1450 MPa	ISO 527-2
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.1 ft·lb/in ²	4.5 kJ/m ²	ISO 179/1eA
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	212 °F	100 °C	ISO 75-2/B

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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