

Technical Data Sheet

**Icorene N4450**

Polypropylene Homopolymer
LyondellBasell Industries
Custom Powders

Product Description

ICORENE® N4450 is a polypropylene homopolymer with a high fluidity, a good transparency and gloss properties. It contains a combined a processing and an antistatic additive package.

This grade is suitable for injection moulding and masterbatch applications. It's main applications are thin walled packaging items or housewares.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Good Processability • High Clarity	• High Flow • High Gloss	• Homopolymer
Uses	• Compounding	• Masterbatch	• Thin-walled Packaging
Forms	• Powder		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.905 g/cm ³	0.905 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	47 g/10 min	47 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	5950 psi	41.0 MPa	
Break	3190 psi	22.0 MPa	
Tensile Elongation (Break)	500 %	500 %	ASTM D638
Flexural Modulus	276000 psi	1900 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	0.95 ft·lb/in ²	2.0 kJ/m ²	ISO 179/1eA
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	226 °F	108 °C	
Vicat Softening Temperature	194 °F	90.0 °C	ASTM D1525 ¹

Notes

¹ Rate B (120°C/h), Loading 2 (50 N)

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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