

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			
Features	• Good Processability • High Clarity	• High Flow • High Gloss	• Homopolymer
Uses	• Compounding	• Masterbatch	• Thin-walled Packaging
Agency Ratings	• EU Food Contact	• FDA Food Contact	
Forms	• Powder		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.905 g/cm³	0.905 g/cm³	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/in²	2.0 kJ/m²	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.