

Technical Data Sheet

# Icorene N4420

Polypropylene Homopolymer  
LyondellBasell Industries  
Custom Powders

**Product Description**

ICORENE® N4420 is a polypropylene homopolymer with a high fluidity.

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

**General**

Features	• High Flow	• 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	0.900 g/cm <sup>3</sup>	0.900 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	25 g/10 min	25 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	4640 psi	32.0 MPa	ASTM D638
Tensile Elongation (Yield)	9.0 %	9.0 %	ASTM D638
Flexural Modulus	181000 psi	1250 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	0.71 ft·lb/in <sup>2</sup>	1.5 kJ/m <sup>2</sup>	ISO 179/1eA
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	69	69	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 Psi (0.45 Mpa), Unannealed	174 °F	79.0 °C	ISO 75-2/B

**Notes**

These are typical property values not to be construed as specification limits.