

ICORENE® N4505

Polypropylene Random Copolymer
Custom Powders

Product Description

ICORENE® N4505 is a random copolymer offers a very low heat seal temperature.

This grade is primarily developed for sealing applications.

General

Material Status	• Commercial: Active
Availability	• Europe
Features	• Low Temperature Heat Sealability • Random Copolymer
Uses	• Seals
Agency Ratings	• EU Food Contact, Unspecified Rating • FDA Food Contact, Unspecified Rating
Forms	• Powder

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.895 g/cm³	0.895 g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	2900 psi	20.0 MPa	ASTM D638
Flexural Modulus	89900 psi	620 MPa	ISO 178
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	131 °F	55.0 °C	ISO 75-2/B
Vicat Softening Temperature	221 °F	105 °C	ISO 306 ¹
Melting Temperature	268 °F	131 °C	ASTM D3417

Notes

¹ Loading 1 (10 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.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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