

ICORENE® N6401

General Purpose Polystyrene Custom Powders

Product Description

ICORENE® N6401 is a general purpose polystyrene grade with high heat resistance and satisfactory flow properties.

This grade is suitable for masterbatch applications.

General

Material Status	• Commercial: Active
Availability	• Europe
Features	• Good Flow • High Heat Resistance
Uses	• Masterbatch
Agency Ratings	• EU Food Contact, Unspecified Rating
Forms	• Powder

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm ³	1.04 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.9 g/10 min	2.9 g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.60 %	0.40 to 0.60 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Break)	7980 psi	55.0 MPa	ISO 527-2/50
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527-2/50
Flexural Stress ¹	14500 psi	100 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Unnotched Impact Strength 73°F (23°C)	6.7 ft·lb/in ²	14 kJ/m ²	ISO 179/1eU
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature ²	214 °F	101 °C	ISO 306/B

Notes

¹ 0.079 in/min (2.0 mm/min)

² Oil

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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