

Technical Data Sheet

**Icorene N6504**

High Impact Polystyrene
LyondellBasell Industries
Custom Powders

Product Description

ICORENE® N6504 is a high impact prime polystyrene grade with a good balance of toughness, high flow, heat resistance and gloss.

This grade is suitable for use as a base for masterbatch or compound production.

General

Material Status	• Commercial: Active
Availability	• Europe
Features	• Good Toughness • High Gloss • High Flow • High Heat Resistance
Uses	• Compounding • Masterbatch
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)	14 g/10 min	14 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	3920 psi	27.0 MPa	ISO 527-2/50
Tensile Strain (Break)	25 %	25 %	ISO 527-2/50
Flexural Stress ¹	5950 psi	41.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	7.6 ft·lb/in ²	16 kJ/m ²	ISO 179/1eA
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature ²	196 °F	91.0 °C	ISO 306/B50

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.

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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