

Technical Data Sheet

**Matrixx 14N5004NC**

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

Product Description

Flame Retardant Copolymer Polypropylene

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Flame Retardant
Features	• Flame Retardant
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.990	0.988 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10 g/10 min	10 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3400 psi	23.4 MPa	ASTM D638
Flexural Modulus - Tangent	165000 psi	1140 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	2.7 ft·lb/in	140 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	185 °F	85.0 °C	ASTM D648
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	V-0	V-0	UL 94

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature - Desiccant Dryer	160 to 170 °F	71 to 77 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	360 to 390 °F	182 to 199 °C
Middle Temperature	370 to 420 °F	188 to 216 °C
Front Temperature	390 to 420 °F	199 to 216 °C
Nozzle Temperature	400 to 440 °F	204 to 227 °C
Processing (Melt) Temp	370 to 440 °F	188 to 227 °C
Mold Temperature	80 to 120 °F	27 to 49 °C
Injection Rate	Moderate	Moderate
Back Pressure	50.0 to 100 psi	0.345 to 0.689 MPa

Injection Notes

Drying General not needed, But may be used to improve appearance.

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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