

Technical Data Sheet

Matrixx 14N4003

Polypropylene Copolymer
 LyondellBasell Industries
 Engineering Plastics

Product Description
 Flame Retardant Copolymer Polypropylene

General	
Additive	• Flame Retardant
Features	• Flame Retardant
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.992	0.990 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)	3500 psi	24.1 MPa	ASTM D638
Flexural Modulus - Tangent	150000 psi	1030 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	2.9 ft·lb/in	150 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			UL 94
0.06 In (1.5 Mm)	V-0	V-0	
0.12 In (3.0 Mm)	V-0	V-0	

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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.