

Technical Data Sheet

Matrixx 12N5000

Polypropylene
 LyondellBasell Industries
 Engineering Plastics

General	
Material Status	• Commercial: Active
Availability	• North America
Additive	• Flame Retardant
Features	• Flame Retardant
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.942	0.940 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	9.5 g/10 min	9.5 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	4800 psi	33.1 MPa	ASTM D638
Tensile Elongation (Yield)	17 %	17 %	ASTM D638
Flexural Modulus - Tangent	220000 psi	1520 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	1.1 ft·lb/in	60 J/m	ASTM D256
Gardner Impact	< 10.0 in·lb	< 1.13 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 Psi (0.45 Mpa), Unannealed	205 °F	96.1 °C	ASTM D648
RTI Str	120 °F	48.9 °C	UL 746B

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 In (1.5 Mm))	V-2	V-2	UL 94

Notes

These are typical property values not to be construed as specification limits.