

Technical Data Sheet

**Matrixx 12N5006**

Polypropylene
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Flame Retardant
Features	• Flame Retardant • Low Blooming
Appearance	• Colors Available
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.940	0.938 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)	2600 psi	17.9 MPa	ASTM D638
Flexural Modulus - Tangent	125000 psi	862 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	No Break	No Break	ASTM D256
Gardner Impact	190 in-lb	21.5 J	ASTM D5420
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	175 °F	79.4 °C	ASTM D648
RTI Str	239 °F	115 °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

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 °F	82 °C
Drying Time	4.0 hr	4.0 hr
Rear Temperature	350 to 420 °F	177 to 216 °C
Middle Temperature	350 to 440 °F	177 to 227 °C
Front Temperature	350 to 440 °F	177 to 227 °C
Nozzle Temperature	350 to 440 °F	177 to 227 °C
Processing (Melt) Temp	360 to 440 °F	182 to 227 °C
Mold Temperature	90 to 150 °F	32 to 66 °C
Injection Rate	Slow-Moderate	Slow-Moderate
Back Pressure	< 100 psi	< 0.689 MPa
Cushion	0.250 to 0.500 in	6.35 to 12.7 mm

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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