

## Technical Data Sheet

# Matrixx 14N4000

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                                         | 0.990                   | 0.988 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)                          | 8.0 g/10 min            | 8.0 g/10 min            | ASTM D1238  |
| Mechanical                                                         | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Tensile Strength (Yield)                                           | 5000 psi                | 34.5 MPa                | ASTM D638   |
| Flexural Modulus - Tangent                                         | 210000 psi              | 1450 MPa                | ASTM D790   |
| Impact                                                             | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Notched Izod Impact                                                | 0.50 ft·lb/in           | 27 J/m                  | ASTM D256   |
| Thermal                                                            | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Deflection Temperature Under Load<br>66 Psi (0.45 Mpa), Unannealed | 205 °F                  | 96.1 °C                 | ASTM D648   |
| RTI Str                                                            | 230 °F                  | 110 °C                  | UL 746B     |
| 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     | 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.