



# Matrixx 14N5006

Polypropylene  
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     |
|--|-------------------------|-------------------------|-----------------|
| Specific Gravity   | 0.990                   | 0.988 g/cm <sup>3</sup> | ASTM D792       |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                          | 10 g/10 min             | 10 g/10 min             | ASTM D1238      |
| Molding Shrinkage - Flow (0.125 in (3.18 mm))                      | 0.016 to 0.022 in/in    | 1.6 to 2.2 %            | Internal Method |
| Mechanical   | Nominal Value (English) | Nominal Value (SI)      | Test Method     |
| Tensile Strength (Yield)   | 1500 psi                | 10.3 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<br>66 psi (0.45 MPa), Unannealed | 175 °F                  | 79.4 °C                 | ASTM D648       |
| RTI Str  | 150 °F                  | 65.6 °C                 | UL 746          |
| Flammability   | Nominal Value (English) | Nominal Value (SI)      | Test Method     |
| Flame Rating (0.06 in (1.5 mm))                                    | V-0                     | V-0                     | UL 94           |