

Technical Data Sheet

Matrixx 12N6002N

Polypropylene Copolymer
 LyondellBasell Industries
 Engineering Plastics

| General | |
|----------------|-------------------|
| Additive | • Flame Retardant |
| Features | • Flame Retardant |
| UL File Number | • E51193 |

| 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) | 18 g/10 min | 18 g/10 min | ASTM D1238 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|--------------------|-------------|
| Tensile Strength | | | ASTM D638 |
| Yield, 73°F (23°C), 0.125 In (3.18 Mm) | 3300 psi | 22.8 MPa | |
| Tensile Elongation | | | ASTM D638 |
| Yield, 73°F (23°C), 0.125 In (3.18 Mm) | 13 % | 13 % | |
| Flexural Modulus - Tangent | | | ASTM D790 |
| 73°F (23°C), 0.125 In (3.18 Mm) | 170000 psi | 1170 MPa | |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact | | | ASTM D256 |
| 73°F (23°C), 0.125 In (3.18 Mm) | 2.5 ft-lb/in | 130 J/m | |
| Gardner Impact | | | ASTM D5420 |
| 73°F (23°C), 0.125 In (3.18 Mm) | 170 in-lb | 19.2 J | |

| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------|-------------------------|--------------------|-------------|
| RTI Elec (0.06 In (1.5 Mm)) | 239 °F | 115 °C | UL 746B |
| RTI Imp (0.06 In (1.5 Mm)) | 239 °F | 115 °C | UL 746B |
| RTI Str (0.06 In (1.5 Mm)) | 239 °F | 115 °C | UL 746B |

| Flammability | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------------|-------------------------|--------------------|-------------|
| Flame Rating | | | UL 94 |
| 0.04 In (1.0 Mm) | V-2 | V-2 | |
| 0.06 In (1.5 Mm) | V-2 | V-2 | |
| 0.12 In (3.0 Mm) | V-2 | V-2 | |

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| Injection | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature | 180 °F | 82 °C |
| Drying Time | 2.0 to 4.0 hr | 2.0 to 4.0 hr |
| 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 |
| Screw Speed | 20 to 60 rpm | 20 to 60 rpm |

Notes

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