

# Matrixx FP62E43

Polyamide 6  
LyondellBasell Industries  
Engineering Plastics

| General                           |                                     |                        |             |
|-----------------------------------|-------------------------------------|------------------------|-------------|
| Filler / Reinforcement            | • Glass Fiber, 43% Filler by Weight |                        |             |
| Uses                              | • Industrial Applications           |                        |             |
| Forms                             | • Pellets                           |                        |             |
| Processing Method                 | • Injection Molding                 |                        |             |
| Physical                          | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Density / Specific Gravity        | 1.49                                | 1.49 g/cm <sup>3</sup> | ASTM D792   |
| Mechanical                        | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Tensile Strength (Yield)          | 23500 psi                           | 162 MPa                | ASTM D638   |
| Flexural Modulus                  | 1.45E+6 psi                         | 10000 MPa              | ASTM D790   |
| Impact                            | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Notched Izod Impact               | 2.0 ft·lb/in                        | 110 J/m                | ASTM D256   |
| Thermal                           | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load |                                     |                        | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed     | 410 °F                              | 210 °C                 |             |
| 264 Psi (1.8 Mpa), Unannealed     | 395 °F                              | 202 °C                 |             |
| RTI Str                           | 150 °F                              | 65.6 °C                | UL 746B     |
| Flammability                      | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Flame Rating (0.06 In (1.5 Mm))   | HB                                  | HB                     | UL 94       |



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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 160 to 200 °F           | 71 to 93 °C        |
| Drying Time            | 4.0 to 6.0 hr           | 4.0 to 6.0 hr      |
| Suggested Max Moisture | 0.10 %                  | 0.10 %             |
| Rear Temperature       | 500 to 550 °F           | 260 to 288 °C      |
| Middle Temperature     | 500 to 550 °F           | 260 to 288 °C      |
| Front Temperature      | 500 to 550 °F           | 260 to 288 °C      |
| Processing (Melt) Temp | 500 to 560 °F           | 260 to 293 °C      |
| Mold Temperature       | 180 to 200 °F           | 82 to 93 °C        |
| Injection Rate         | Fast                    | Fast               |
| Back Pressure          | < 50.0 psi              | < 0.345 MPa        |
| Cushion                | 0.250 to 0.500 in       | 6.35 to 12.7 mm    |

**Injection Notes**  
Dessicant dryer with -20°F dewpoint  
Screw Speed: Slow to Medium

Notes

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

