

## Technical Data Sheet

# Matrixx F663E23

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

| General                                           |                                     |                        |             |
|---------------------------------------------------|-------------------------------------|------------------------|-------------|
| Filler / Reinforcement                            | • Glass Fiber, 23% Filler by Weight |                        |             |
| Physical                                          | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Density / Specific Gravity                        | 1.29                                | 1.29 g/cm <sup>3</sup> | ASTM D792   |
| Mechanical                                        | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Tensile Strength                                  |                                     |                        | ASTM D638   |
| Yield, 73°F (23°C), 0.125 In (3.18 Mm)            | 21500 psi                           | 148 MPa                |             |
| Flexural Modulus                                  |                                     |                        | ASTM D790   |
| 73°F (23°C), 0.125 In (3.18 Mm)                   | 960000 psi                          | 6620 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)                   | 1.2 ft·lb/in                        | 64 J/m                 |             |
| Thermal                                           | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load                 |                                     |                        | ASTM D648   |
| 264 Psi (1.8 Mpa), Unannealed, 0.125 In (3.18 Mm) | 470 °F                              | 243 °C                 |             |
| RTI Elec                                          | 149 °F                              | 65.0 °C                | UL 746B     |
| RTI Imp                                           | 149 °F                              | 65.0 °C                | UL 746B     |
| RTI Str                                           | 149 °F                              | 65.0 °C                | UL 746B     |
| Flammability                                      | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Flame Rating (0.06 In (1.5 Mm))                   | HB                                  | HB                     | UL 94       |
| Additional Information                            | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Reinforcement Content                             | 23 %                                | 23 %                   | ASTM D5630  |

## Notes

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