

Technical Data Sheet

# Matrixx F663E43

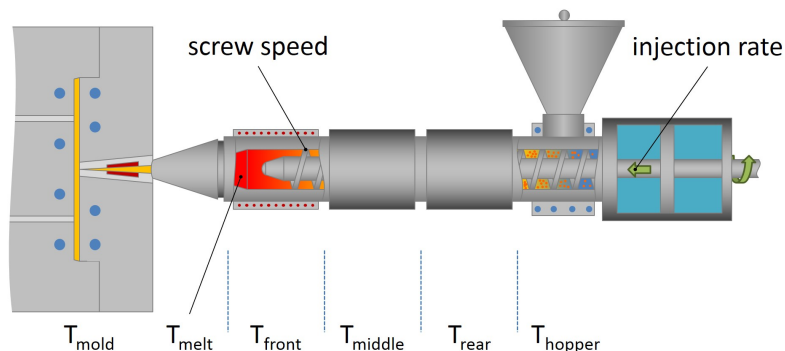
Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

| General                                                            |                                     |                    |             |
|--------------------------------------------------------------------|-------------------------------------|--------------------|-------------|
| Filler / Reinforcement                                             | • Glass Fiber, 43% Filler by Weight |                    |             |
| Forms                                                              | • Pellets                           |                    |             |
| Physical                                                           | Nominal Value (English)             | Nominal Value (SI) | Test Method |
| Density / Specific Gravity                                         | 1.49                                | 1.49 g/cm³         | ASTM D792   |
| Mechanical                                                         | Nominal Value (English)             | Nominal Value (SI) | Test Method |
| Tensile Strength (Yield)                                           | 30500 psi                           | 210 MPa            | ASTM D638   |
| Flexural Modulus - Tangent                                         | 1.62E+6 psi                         | 11200 MPa          | ASTM D790   |
| Impact                                                             | Nominal Value (English)             | Nominal Value (SI) | Test Method |
| Notched Izod Impact                                                | 2.4 ft·lb/in                        | 130 J/m            | ASTM D256   |
| Thermal                                                            | Nominal Value (English)             | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load<br>264 Psi (1.8 Mpa), Unannealed | 490 °F                              | 254 °C             | ASTM D648   |
| 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      |
| Rear Temperature       | 520 to 570 °F           | 271 to 299 °C      |
| Middle Temperature     | 520 to 570 °F           | 271 to 299 °C      |
| Front Temperature      | 520 to 570 °F           | 271 to 299 °C      |
| Processing (Melt) Temp | 530 to 570 °F           | 277 to 299 °C      |
| Mold Temperature       | 150 to 200 °F           | 66 to 93 °C        |
| Injection Rate         | Moderate-Fast           | Moderate-Fast      |
| Back Pressure          | < 50.0 psi              | < 0.345 MPa        |
| Cushion                | 0.250 to 0.500 in       | 6.35 to 12.7 mm    |

### Injection Notes

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

### Notes

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