

## Technical Data Sheet

### Matrixx 80M7451

Polyethylene Terephthalate  
LyondellBasell Industries  
Engineering Plastics

| General                                           |                                       |                    |             |
|---------------------------------------------------|---------------------------------------|--------------------|-------------|
| Filler / Reinforcement                            | • Glass\Mineral, 45% Filler by Weight |                    |             |
| Physical                                          | Nominal Value (English)               | Nominal Value (SI) | Test Method |
| Density / Specific Gravity                        | 1.70                                  | 1.70 g/cm³         | 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)            | 21000 psi                             | 145 MPa            |             |
| Flexural Modulus - Tangent                        |                                       |                    | ASTM D790   |
| 73°F (23°C), 0.125 In (3.18 Mm)                   | 1.70E+6 psi                           | 11700 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)                   | 1.0 ft-lb/in                          | 53 J/m             |             |
| Thermal                                           | Nominal Value (English)               | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load                 |                                       |                    | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed, 0.125 In (3.18 Mm) | 455 °F                                | 235 °C             |             |
| 264 Psi (1.8 Mpa), Unannealed, 0.125 In (3.18 Mm) | 410 °F                                | 210 °C             |             |
| RTI Elec                                          | 167 °F                                | 75.0 °C            | UL 746B     |
| RTI Imp                                           | 167 °F                                | 75.0 °C            | UL 746B     |
| RTI Str                                           | 167 °F                                | 75.0 °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                             | 45 %                                  | 45 %               | ASTM D5630  |

#### Notes

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