

## Technical Data Sheet

### Matrixx 80S7451

Polyethylene Terephthalate  
LyondellBasell Industries  
Engineering Plastics

| General                           |                                     |                        |             |
|-----------------------------------|-------------------------------------|------------------------|-------------|
| Filler / Reinforcement            | • Glass Fiber, 45% Filler by Weight |                        |             |
| Forms                             | • Pellets                           |                        |             |
| Physical                          | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Density / Specific Gravity        | 1.70                                | 1.70 g/cm <sup>3</sup> | ASTM D792   |
| Mechanical                        | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Tensile Strength (Yield)          | 25000 psi                           | 172 MPa                | ASTM D638   |
| Flexural Modulus - Tangent        | 2.00E+6 psi                         | 13800 MPa              | ASTM D790   |
| Impact                            | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Notched Izod Impact               | 1.7 ft·lb/in                        | 91 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     | 460 °F                              | 238 °C                 |             |
| 264 Psi (1.8 Mpa), Unannealed     | 425 °F                              | 218 °C                 |             |
| RTI Str                           | 170 °F                              | 76.7 °C                | UL 746B     |
| Flammability                      | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Flame Rating (0.06 In (1.5 Mm))   | HB                                  | HB                     | UL 94       |

#### Notes

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