

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/cm<sup>3</sup> ASTM D792

**Mechanical** **Nominal Value (English)** **Nominal Value (SI)** **Test Method**

Tensile Strength Yield, 73°F (23°C), 0.125 In (3.18 Mm) 21000 psi 145 MPa ASTM D638

Flexural Modulus - Tangent 73°F (23°C), 0.125 In (3.18 Mm) 1.70E+6 psi 11700 MPa ASTM D790

**Impact** **Nominal Value (English)** **Nominal Value (SI)** **Test Method**

Notched Izod Impact 73°F (23°C), 0.125 In (3.18 Mm) 1.0 ft-lb/in 53 J/m ASTM D256

**Thermal** **Nominal Value (English)** **Nominal Value (SI)** **Test Method**

Deflection Temperature Under Load 66 Psi (0.45 Mpa), Unannealed, 0.125 In (3.18 Mm) 455 °F 235 °C ASTM D648

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.