

Technical Data Sheet

Matrixx 85S7451

Polyethylene Terephthalate
LyondellBasell Industries
Engineering Plastics

General			
Filler / Reinforcement	• Glass Fiber, 75% Filler by Weight		
Additive	• Flame Retardant		
Features	• Flame Retardant		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.80	1.80 g/cm ³	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)	22000 psi	152 MPa	
Flexural Modulus			ASTM D790
73°F (23°C), 0.125 In (3.18 Mm)	1.80E+6 psi	12400 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)	1.4 ft·lb/in	75 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)	460 °F	238 °C	
264 Psi (1.8 Mpa), Unannealed, 0.125 In (3.18 Mm)	400 °F	204 °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			UL 94
0.06 In (1.5 Mm)	V-0	V-0	
0.12 In (3.0 Mm)	5VA	5VA	
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.