

Technical Data Sheet
Matrixx F663E23
Polyamide 66
Engineering Plastics



General			
Filler / Reinforcement	• Glass Fiber, 23% Filler by Weight		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.29	1.29 g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3 in/in	0.20 to 0.50 %	Internal Method
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield, 73°F (23°C), 0.125 in (3.18 mm)	21500 psi	148 MPa	
Flexural Modulus			ASTM D790
73°F (23°C), 0.125 in (3.18 mm)	960000 psi	6620 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)	1.2 ft·lb/in	64 J/m	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	470 °F	243 °C	
RTI Elec	149 °F	65.0 °C	UL 746
RTI Imp	149 °F	65.0 °C	UL 746
RTI Str	149 °F	65.0 °C	UL 746
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	23 %	23 %	ASTM D5630

Notes

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

