Technical Data Sheet

Matrixx F662E43

Polyamide 66
Engineering Plastics

General	
Filler / Reinforcement	• Glass Fiber, 43% Filler by Weight
Uses	• Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.49	1.49 g/cm³	ASTM D792
Molding Shrinkage - Flow (0.125 in (3.18 mm))	1.0E-3 to 3.0E-3 in/in	0.10 to 0.30 %	Internal Method
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield)	27000 psi	186 MPa	ASTM D638
Flexural Modulus - Tangent	1.60E+6 psi	11000 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact	2.0 ft·lb/in	110 J/m	ASTM D256
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	490 °F	254 °C	
RTI Str	150 °F	65.6 °C	UL 746
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.5 mm))	HB	HB	UL 94

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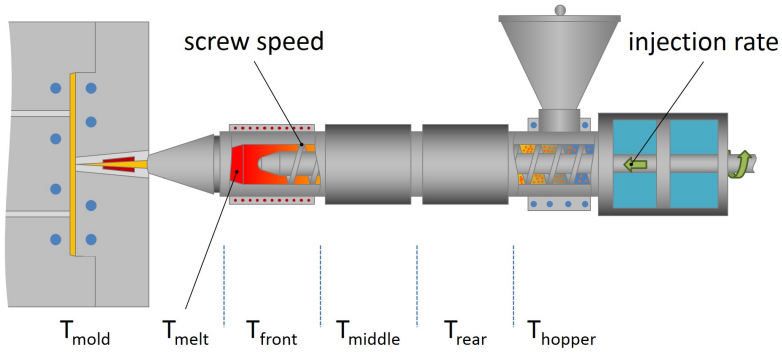

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	160 to 200 °F	71 to 93 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Rear Temperature	520 to 570 °F	271 to 299 °C
Middle Temperature	520 to 570 °F	271 to 299 °C
Front Temperature	520 to 570 °F	271 to 299 °C
Processing (Melt) Temp	530 to 570 °F	277 to 299 °C
Mold Temperature	150 to 200 °F	66 to 93 °C
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	< 50.0 psi	< 0.345 MPa
Cushion	0.250 to 0.500 in	6.35 to 12.7 mm

Injection Notes

Dessicant dryer with -20°F dewpoint
Screw Speed: Slow to Medium

Notes

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