Technical Data Sheet

Matrixx FP63D13

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
13% Glass Reinforced, Wear Resistant Nylon 6

General	
Filler / Reinforcement	• Glass Fiber, 13% Filler by Weight
Features	• Impact Modified
Forms	• Pellets
Processing Method	• Injection Molding

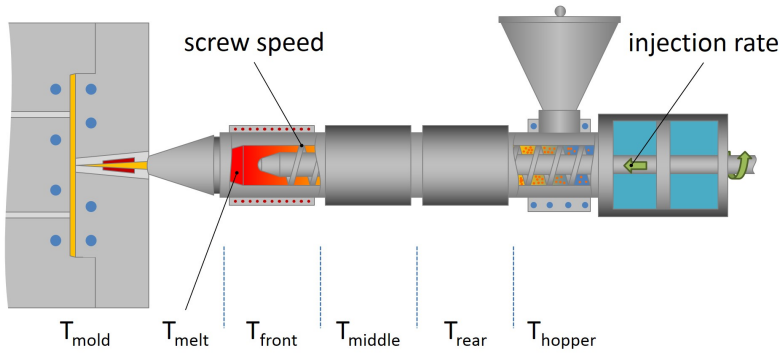
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.23	1.23 g/cm³	ASTM D792
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Break)	13000 psi	89.6 MPa	ASTM D638
Flexural Modulus - Tangent	630000 psi	4340 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact	2.5 ft·lb/in	130 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	390 °F	199 °C	
264 Psi (1.8 Mpa), Unannealed	370 °F	188 °C	

Additional Information
1E9P8A/PR1927 Revision: 5/2/2020

Technical Data Sheet

Matrixx FP63D13

Polyamide 6
LyondellBasell Industries
Engineering Plastics



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
Suggested Max Moisture	0.10 %	0.10 %
Rear Temperature	480 to 540 °F	249 to 282 °C
Middle Temperature	500 to 540 °F	260 to 282 °C
Front Temperature	500 to 540 °F	260 to 282 °C
Processing (Melt) Temp	480 to 540 °F	249 to 282 °C
Mold Temperature	180 to 200 °F	82 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.