



Technical Data Sheet

Matrixx FP63E15BK22

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

FP63E15BK22 is a 15% glass-reinforced, Black Nylon 6

General

Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Features	• Filled
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
----------	-------------------------	--------------------	-------------

Density / Specific Gravity	1.23	1.23 g/cm ³	ASTM D792
----------------------------	------	------------------------	-----------

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

Tensile Strength (Break)	18500 psi	128 MPa	ASTM D638
Flexural Modulus	77000 psi	531 MPa	ASTM D790

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

Notched Izod Impact	0.80 ft·lb/in	43 J/m	ASTM D256
---------------------	---------------	--------	-----------

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

Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed	370 °F	188 °C	ASTM D648
--	--------	--------	-----------

Additional Information

1F873A/PR1223
Revision: 5/2/2020

Technical Data Sheet

Matrixx FP63E15BK22

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	Fast	Fast
Back Pressure	< 50.0 psi	< 0.345 MPa
Cushion	0.250 to 0.500 in	6.35 to 12.7 mm

Injection Notes

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

Notes

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