

Technical Data Sheet



Fiberfil M-1492 BK223

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber	• Mica
Features	• Chemically Coupled	• Homopolymer
Appearance	• Black	
Forms	• Pellets	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.19	1.19 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0 g/10 min	9.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	9100 psi	62.7 MPa	ASTM D638
Tensile Elongation (Yield, 73°F (23°C))	3.0 %	3.0 %	ASTM D638
Flexural Modulus - Tangent (73°F (23°C))	750000 psi	5170 MPa	ASTM D790
Flexural Strength (73°F (23°C))	13500 psi	93.1 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm)	1.0 ft·lb/in	53 J/m	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	315 °F	157 °C	
264 psi (1.8 MPa), Unannealed	290 °F	143 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	170 °F	77 °C
Drying Time	2.0 hr	2.0 hr
Suggested Max Moisture	0.20 %	0.20 %
Rear Temperature	390 to 410 °F	199 to 210 °C
Middle Temperature	400 to 440 °F	204 to 227 °C
Front Temperature	360 to 410 °F	182 to 210 °C
Nozzle Temperature	360 to 400 °F	182 to 204 °C
Processing (Melt) Temp	390 to 450 °F	199 to 232 °C
Mold Temperature	80 to 120 °F	27 to 49 °C
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	50.0 psi	0.345 MPa

Injection Notes

Screw speed: Medium

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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