

**Technical Data Sheet**  
**Fiberfil® J-69/20/E**  
 Polypropylene Homopolymer  
 Engineering Plastics



**General**

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Chemically Coupled • Homopolymer
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12 g/10 min	12 g/10 min	ASTM D1238
Molding Shrinkage - Flow			ASTM D955
0.125 in (3.18 mm)	3.0E-3 in/in	0.30 %	
0.250 in (6.35 mm)	4.0E-3 in/in	0.40 %	
Water Absorption (24 hr)	0.030 %	0.030 %	ASTM D570

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	750000 psi	5170 MPa	ASTM D638
Tensile Strength (73°F (23°C))	13000 psi	89.6 MPa	ASTM D638
Tensile Elongation (Yield, 73°F (23°C))	2.5 %	2.5 %	ASTM D638
Flexural Modulus - Tangent (73°F (23°C))	620000 psi	4270 MPa	ASTM D790
Flexural Strength (73°F (23°C))	14600 psi	101 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)	1.2 ft·lb/in	64 J/m	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	105 to 110	105 to 110	ASTM D785

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	320 °F	160 °C	
264 psi (1.8 MPa), Unannealed	310 °F	154 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	400 to 430 °F	204 to 221 °C
Middle Temperature	420 to 450 °F	216 to 232 °C
Front Temperature	400 to 440 °F	204 to 227 °C
Nozzle Temperature	400 to 430 °F	204 to 221 °C
Processing (Melt) Temp	410 to 450 °F	210 to 232 °C
Mold Temperature	100 to 150 °F	38 to 66 °C
Injection Rate	Slow	Slow
Back Pressure	25.0 to 50.0 psi	0.172 to 0.345 MPa

**Injection Notes**

Screw speed: Slow to Medium

**Notes**

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