

Technical Data Sheet

Fiberfil® PP-60/TC/40

Polypropylene Homopolymer
Engineering Plastics



General			
Filler / Reinforcement	• Talc, 40% Filler by Weight		
Features	• Homopolymer		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.25	1.25 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0 g/10 min	9.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow			ASTM D955
0.125 in (3.18 mm)	7.0E-3 in/in	0.70 %	
0.250 in (6.35 mm)	9.0E-3 in/in	0.90 %	
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))	560000 psi	3860 MPa	ASTM D638
Tensile Strength (73°F (23°C))	4500 psi	31.0 MPa	ASTM D638
Tensile Elongation (Yield, 73°F (23°C))	10 %	10 %	ASTM D638
Flexural Modulus - Tangent (73°F (23°C))	530000 psi	3650 MPa	ASTM D790
Flexural Strength (73°F (23°C))	7000 psi	48.3 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)	0.50 ft·lb/in	27 J/m	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	90 to 95	90 to 95	ASTM D785

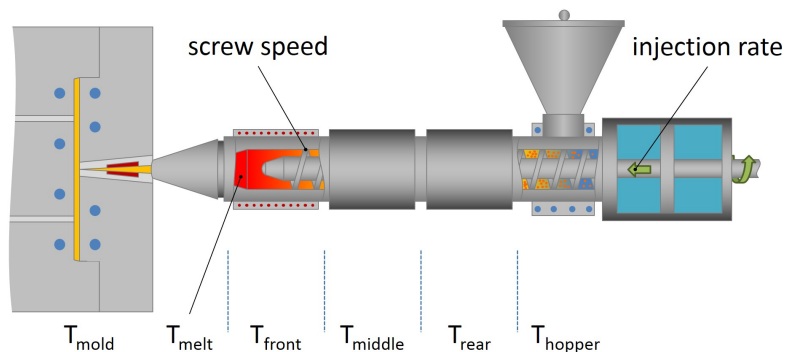
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	270 °F	132 °C	
264 psi (1.8 MPa), Unannealed	190 °F	87.8 °C	

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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 390 °F	182 to 199 °C
Nozzle Temperature	360 to 380 °F	182 to 193 °C
Processing (Melt) Temp	390 to 450 °F	199 to 232 °C
Mold Temperature	90 to 160 °F	32 to 71 °C
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	0.00 to 100 psi	0.00 to 0.689 MPa

Injection Notes

Screw speed: Medium to Fast

Notes

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