

Technical Data Sheet
Fiberfil® PP-61/TC/20/UV
 Polypropylene Copolymer
 Engineering Plastics



General

Filler / Reinforcement	• Talc, 20% Filler by Weight
Additive	• UV Stabilizer
Features	• Copolymer
RoHS Compliance	• RoHS Compliant
Forms	• Pellets

Physical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15 to 20 g/10 min	15 to 20 g/10 min	ASTM D1238
Molding Shrinkage - Flow			ASTM D955
0.125 in (3.18 mm)	0.010 in/in	1.0 %	
0.250 in (6.35 mm)	0.012 in/in	1.2 %	
Water Absorption (24 hr)	0.020 %	0.020 %	ASTM D570

Mechanical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	310000 psi	2140 MPa	ASTM D638
Tensile Strength (73°F (23°C))	3800 psi	26.2 MPa	ASTM D638
Tensile Elongation (Yield, 73°F (23°C))	30 %	30 %	ASTM D638
Flexural Modulus - Tangent (73°F (23°C))	290000 psi	2000 MPa	ASTM D790
Flexural Strength (73°F (23°C))	5400 psi	37.2 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	

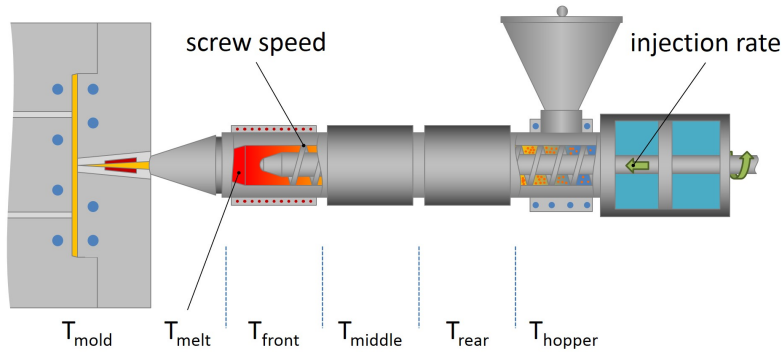
Hardness

	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	80 to 90	80 to 90	ASTM D785

Thermal

	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	170 °F	76.7 °C	
264 psi (1.8 MPa), Unannealed	160 °F	71.1 °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	Slow-Moderate	Slow-Moderate
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.