Technical Data Sheet

Fiberfil® J-69/40/E

Polypropylene Homopolymer
Engineering Plastics

General		
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight	
Features	• Chemically Coupled	• Homopolymer
Automotive Specifications	• CHRYSLER MS-DB-500 CPN4473 Color: Natural	
Forms	• Pellets	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.22	1.22 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0 g/10 min	6.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow			ASTM D955
0.125 in (3.18 mm)	2.0E-3 in/in	0.20 %	
0.250 in (6.35 mm)	3.0E-3 in/in	0.30 %	
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))	1.25E+6 psi	8620 MPa	ASTM D638
Tensile Strength (73°F (23°C))	16500 psi	114 MPa	ASTM D638
Tensile Elongation (Yield, 73°F (23°C))	2.0 %	2.0 %	ASTM D638
Flexural Modulus - Tangent (73°F (23°C))	1.15E+6 psi	7930 MPa	ASTM D790
Flexural Strength (73°F (23°C))	21400 psi	148 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)	1.8 ft·lb/in	96 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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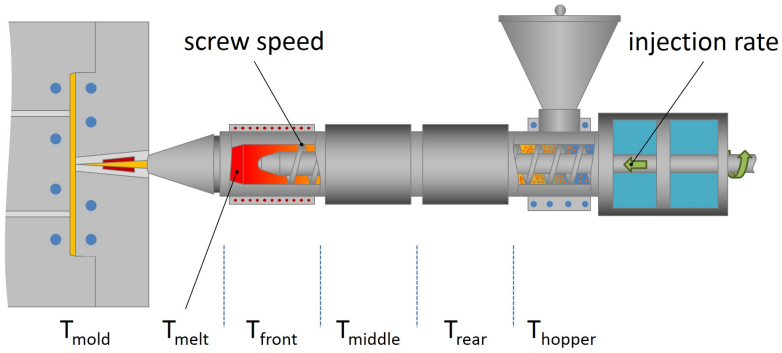

Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	400 to 430 °F	204 to 221 °C
Middle Temperature	420 to 450 °F	216 to 232 °C
Front Temperature	400 to 440 °F	204 to 227 °C
Nozzle Temperature	400 to 430 °F	204 to 221 °C
Processing (Melt) Temp	410 to 450 °F	210 to 232 °C
Mold Temperature	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.