

# Edgetek<sup>™</sup> PK-30GF/000 BK Polyetheretherketone

# **Key Characteristics**

Product Description	
30% Glass Fiber Reinforced F	PEEK Compound with Standard Flowability
General	
Material Status	Commercial: Active
Regional Availability	Asia Pacific
Filler / Reinforcement	Glass Fiber, 30% Filler by Weight
Features	General Purpose High Heat Resistance
Uses	Automotive Applications General Purpose Consumer Applications Industrial Applications
Appearance	Black
Forms	Pellets
Processing Method	Injection Molding

## **Technical Properties**<sup>1</sup>

nysical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.48	1.48	ASTM D792
Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)	3.0 g/10 min	3.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3 in/in	0.20 to 0.40 %	ASTM D955
lechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	1.89E+6 psi	13000 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	26100 psi	180 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	3.0 to 4.0 %	3.0 to 4.0 %	ASTM D638
Flexural Modulus	1.74E+6 psi	12000 MPa	ASTM D790
Flexural Strength	40600 psi	280 MPa	ASTM D790
mpact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	2.2 ft·lb/in	120 J/m	
Unnotched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm)	18 ft·lb/in	950 J/m	
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	617 °F	325 °C	
lectrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+14 ohms	1.0E+14 ohms	ASTM D257
lammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.0630 in (1.60 mm))	V-0	V-0	Internal Meth

# **Processing Information**

Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	302 to 320 °F	150 to 160 °C	
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr	

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## **Technical Data Sheet**

Injection	Typical Value (English)	Typical Value (SI)	
Processing (Melt) Temp	680 to 734 °F	360 to 390 °C	
Mold Temperature	338 to 374 °F	170 to 190 °C	
Injection Notes			

Injection Pressure: MED-HIGH Hold Pressure: MED-HIGH Screw Speed: MODERATE Back Pressure: LOW

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

Asia

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

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