



TEGO™ POLYMERS

Carbon nanotube-filled polyetheretherketone
P/N 170-3210

Material Properties

		English	SI Metric	Test Method
Physical:	Specific gravity		1.30	From density
	Density	81 lb/ft ³	1,300 kg/m ³	TEGO-121
	MFR		15 g/10 min	FGTM-1202
Mechanical:	Izod impact strength, notched	0.81 ft-lb/in	43 J/m	ASTM D 256
	Tensile stress at break	13,800 PSI	95 MPa	ASTM D 638
	Tensile elongation	6.9%	6.9%	ASTM D 638
	Tensile modulus	529,000 PSI	3,650 MPa	ASTM D 638
	Flexural modulus	611,000 PSI	4,210 MPa	ASTM D 4065
Electrical:	Surface resistance	10 ³ -10 ⁶ ohms	10 ³ -10 ⁶ ohms	TEGO-105
	Static decay	≤0.22 sec	≤0.22 sec	FGTM-1208
Thermal:	T _g	297°F	147°C	Supplier*
	T _m	650°F	343°C	Supplier*
	Maximum use temperature**	248°F	120°C	TEGO-111
Injection molding process guidelines:	Peak injection pressure	14,500 PSI	100 MPa	N/A
	Melt temperature	780°F	416°C	N/A
	Mold temperature	376°F	191°C	N/A
	Drying temperature	302°F	150°C	N/A
	Drying time	6 hours	6 hours	N/A

* Nominal value from base resin supplier's literature.

** Recommended use temperature may vary with product and application.

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