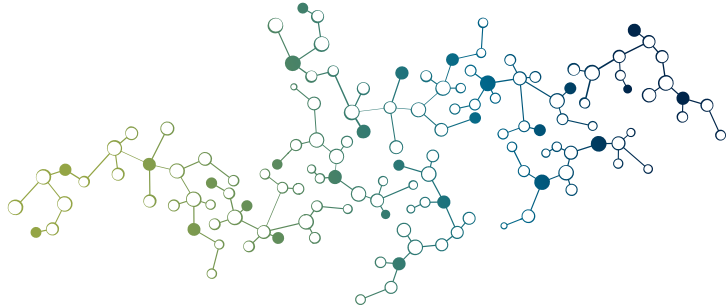




InElec® PEEKCNT5

PRODUCT DESCRIPTION 5% CARBON NANO-TUBE FILLED PEEK

MATERIAL STATUS Commercial: Active

AVAILABILITY Africa & Middle East, Asia Pacific, Europe, Latin America, North America

FILLER / REINFORCEMENT Carbon Nano, 5.0% Filler by Weight

FEATURES Electrically Conductive, ESD Protection, Permanent Antistatic

USES Aerospace Applications, Connectors, Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Industrial Applications, Industrial Parts, Metal Replacement, Military/Defense Applications, Oil/Gas Applications, Outdoor Applications, Semiconductor Applications

FORMS Pellets

PROCESSING METHOD Injection Molding

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.32		ASTM D792
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Modulus	650000	psi	ASTM D638
Tensile Strength	15000	psi	ASTM D638
Tensile Elongation (Yield)	5.0 to 6.0	%	ASTM D638
Flexural Modulus	700000	psi	ASTM D790
Flexural Strength	30000	psi	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (0.125 in)	1.0	ft·lb/in	ASTM D256
ELECTRICAL	NOMINAL VALUE	UNIT	TEST METHOD
Surface Resistivity	1.0E+4 to 1.0E+6	ohms	ASTM D257
INJECTION	NOMINAL VALUE	UNIT	
Drying Temperature	300	°F	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	660 to 750	°F	
Mold Temperature	350 to 400	°F	
Back Pressure	50.0 to 100	psi	
Screw Speed	40 to 70	rpm	
Vent Depth	1.5E-3 to 3.0E-3	in	

NOTES

¹ Typical properties: these are not to be construed as specifications.