



InElec® POMCCF10

PRODUCT DESCRIPTION 10% CARBON FIBER REINFORCED COPOLYMER ACETAL

MATERIAL STATUS Commercial: Active

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

FILLER / REINFORCEMENT Carbon Fiber, 10% Filler by Weight

FEATURES Filled, Good Dimensional Stability, High Stiffness, High Strength, Permanent Antistatic

USES Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Industrial Applications, Office Automation Equipment

FORMS Pellets

PROCESSING METHOD Injection Molding

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.44	g/cm ³	ASTM D792
Specific Volume	0.694	cm ³ /g	
Molding Shrinkage - Flow	0.70 to 0.90	%	ASTM D955
Water Absorption (24 hr)	0.26	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Strength	72.4	MPa	ASTM D638
Tensile Elongation (Yield)	3.0 to 5.0	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	117	MPa	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (3.18 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	430	J/m	ASTM D4812
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 1.8 MPa, Unannealed	149	°C	ASTM D648
CLTE - Flow	6.5E-5	cm/cm/°C	ASTM D696
ELECTRICAL	NOMINAL VALUE	UNIT	TEST METHOD
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	
FLAMMABILITY	NOMINAL VALUE	UNIT	TEST METHOD
Flame Rating (1.6 mm)	HB		UL 94



INJECTION	NOMINAL VALUE	UNIT
Drying Temperature	82	°C
Drying Time	4.0	hr
Processing (Melt) Temp	191 to 210	°C
Mold Temperature	93	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm
Vent Depth	0.013 to 0.025	mm

NOTES

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

