



2079 Center Square Road
Logan Township, NJ 08085

TECHNICAL DATA AND PROCESS SHEET

10% CARBON FIBER REINFORCED TPU

INELEC TPUCF1050D

TYPICAL PROPERTIES

PROPERTY	VALUE	UNIT	METHOD
PHYSICAL			
SPECIFIC GRAVITY	1.25		ASTM D792
MOLD SHRINKAGE, FLOW 0.125"	0.1-0.3		
SHORE HARDNESS	50D		ASTM D2240
MECHANICAL			
TENSILE STRENGTH, BRK	7,000	psi.	ASTM D638
TENSILE ELONGATION	>25	%	ASTM D638
FLEXURAL MODULUS	170,000	psi	ASTM D790
NOTCHED IZOD IMPACT	9.0	ft-lbs/in	ASTM D256
THERMAL			
HDTUL @ 264 psi	180	°F	ASTM D648
ELECTRICAL			
SURFACE RESISTIVITY	10E2 – 10E6	Ohm/Sq	ASTM D257
PROCESSING			
DRYING TEMPERATURE	200	°F	
DRYING TIME	4	hrs	
CYLINDER TEMPERATURE	370-430	°F	
MELT TEMPERATURE	410	°F	
MOLD TEMPERATURE	60-150	°F	
BACK PRESSURE	50-100	psi	
SCREW SPEED	40-70	rpm	

8/16/10 DJV

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