

TECHNICAL DATA AND PROCESS SHEET

CARBON POWDER FILLED HIGH DENSITY POLYETHYLENE

INELEC PE

TYPICAL PROPERTIES

PROPERTY	VALUE	UNIT	METHOD
PHYSICAL			
SPECIFIC GRAVITY	1.01	-	ASTM D792
WATER ABSORPTION	0.02	%	ASTM D570
MOLD SHRINKAGE, FLOW 0.125"	2.0-3.0	%	ASTM D955
MECHANICAL			
TENSILE STRENGTH, BRK	3,300	psi	ASTM D638
TENSILE ELONGATION	>10	%	ASTM D638
FLEXURAL STRENGTH	4,200	psi	ASTM D790
FLEXURAL MODULUS	150,000	psi	ASTM D790
IZOD IMPACT, NOTCHED	1.0	ft-lb/in	ASTM D256
IZOD IMPACT, UNNOTCHED	No Break	ft-lb/in	ASTM D4812
THERMAL			
HDTUL @ 264 PSI	116	°F	ASTM D648
ELECTRICAL			
SURFACE RESISTIVITY	10 ² -10 ⁶	Ohm/sq	ASTM D257
PROCESSING			
DRYING TEMPERATURE	170	°F	
DRYING TIME	4	hrs	
MELT TEMPERATURE	380-440	°F	
MOLD TEMPERATURE	100	°F	
BACK PRESSURE	50-100	psi	
SCREW SPEED	40-70	rpm	
VENT DEPTH	0.0005-0.001	in	

7/11/11 DJV