

**TECHNICAL DATA AND PROCESS SHEET**

**30% FIBERGLASS REINFORCED, FLAME RETARDANT POLYCARBONATE/PBT ALLOY**

**INSTRUC PCPBTGF30FR**

**TYPICAL PROPERTIES**

<b>PROPERTY</b>	<b>VALUE</b>	<b>UNIT</b>	<b>METHOD</b>
<b>PHYSICAL</b>			
SPECIFIC GRAVITY	1.59	-	ASTM D792
WATER ABSORPTION	0.07	%	ASTM D570
MOLD SHRINKAGE, FLOW 0.125"	0.3-0.5	%	
<b>MECHANICAL</b>			
TENSILE STRENGTH, BRK	16,000	psi	ASTM D638
TENSILE ELONGATION	3-4	%	ASTM D638
FLEXURAL MODULUS	1,000,000	psi	ASTM D790
IZOD IMPACT, NOTCHED	1.6	ft-lb/in	ASTM D256
IZOD IMPACT, UNNOTCHED	12.0	ft-lb/in	ASTM D4812
<b>THERMAL</b>			
HDTUL @ 264 PSI	325	°F	ASTM D648
FLAMMABILITY <sup>1</sup>	V-0 @ 1.5 mm		UL 94
<b>ELECTRICAL</b>			
VOLUME RESISTIVITY	>1exp17	Ohm-cm	ASTM D257
<b>PROCESSING</b>			
DRYING TEMPERATURE	230	°F	
DRYING TIME	3-4	hrs	
MELT TEMPERATURE	510-530	°F	
MOLD TEMPERATURE	150-180	°F	
BACK PRESSURE	50-100	psi	
SCREW SPEED	40-70	rpm	

1. Infinity Compounding internal testing

TSC 11/15/10

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