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TECHNICAL DATA AND PROCESS SHEET

30% GLASS FIBER REINFORCED NYLON 12

INSTRUC PA12GF30

TYPICAL PROPERTIES

PROPERTY	VALUE	UNIT	METHOD
PHYSICAL			
SPECIFIC GRAVITY	1.23	-	ASTM D792
WATER ABSORPTION	0.08	%	ASTM D570
MOLD SHRINKAGE, FLOW 0.125"	0.2 – 0.4	%	
MECHANICAL			
TENSILE STRENGTH, BRK	14,500	psi	ASTM D638
TENSILE ELONGATION	2-4	%	ASTM D638
FLEXURAL MODULUS	800,000	psi	ASTM D790
IZOD IMPACT, NOTCHED	2.5	ft-lb/in	ASTM D256
IZOD IMPACT, UNNOTCHED	14.0	ft-lb/in	ASTM D256
THERMAL			
HDTUL @ 264 PSI	325	°F	ASTM D648
ELECTRICAL			
SURFACE RESISTIVITY	>10EXP17	Ohm/Sq	ASTM D257
PROCESSING			
DRYING TEMPERATURE	180	°F	
DRYING TIME	4	hrs	
MELT TEMPERATURE	440-460	°F	
MOLD TEMPERATURE	160-180	°F	
BACK PRESSURE	50-100	psi	
SCREW SPEED	40-70	rpm	
VENT DEPTH	0.0005-0.001	in	

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