



2079 Center Square Road
 Logan Township, NJ 08085
 Phone: 856-467-3030

TECHNICAL DATA AND PROCESS SHEET

20% GLASS FIBER REINFORCED IMPACT MODIFIED NYLON 6/6

INSTRUC PA66GF20IM

TYPICAL PROPERTIES

PROPERTY	ASTM METHOD	English	UNITS	Metric SI	UNITS
GENERAL					
SPECIFIC GRAVITY	D792	1.23		1.23	
SPECIFIC VOLUME		22.52	in ³ /lb	0.813	cm ³ /gm
WATER ABSORPTION (24 Hrs)	D570	0.90	%	0.90	%
MOLD SHRINKAGE	D955	0.5-0.7	%	0.5-0.7	%
MECHANICAL					
TENSILE STRENGTH	D638	15,500	psi	107	MPa
ELONGATION, YIELD	D638	3-6	%	3-6	%
FLEXURAL STRENGTH	D790	24,000	psi	165	MPa
FLEXURAL MODULUS	D790	650,000	psi	4,482	MPa
SHEAR STRENGTH	D732				
IZOD IMPACT STRENGTH	D256				
NOTCHED 1/8"		3.6	ft.lb./in.	192	J/m
UNNOTCHED 1/8"		15	ft.lb./in.	800	J/m
ROCKWELL HARDNESS					
THERMAL					
HDTUL @ 264 PSI	D648	465	°F	241	°C
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	3	in./in. F x10 ⁻⁵	5.4	mm/mm C 10 ⁻⁶
FLAMMABILITY ¹	U.L.Subj 94	HB@ 1/16	in	HB@ 1.5	mm
ELECTRICAL					
SURFACE RESISTIVITY		10e ¹⁶	ohms/sq	10e ¹⁶	ohms/sq
PROCESSING					
DRYING TEMPERATURE		175	°F	79	°C
DRYING TIME		4	hrs	4	hrs
MELT TEMPERATURE		500-575	°F	260 - 301	°C
MOLD TEMPERATURE		200	°F	93	°C
BACK PRESSURE		50-100	psi	0.3 - 0.7	MPa
SCREW SPEED		40-70	rpm	40-70	rpm
VENT DEPTH		0.0005-0.001	in	0.0125 - 0.025	mm

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot guarantee favorable results and assume no liability in connection with its use of the products described. Each user bears full responsibility for making it's own determination as to the suitability of the product described. None of this information is to be taken as a license to operate under, or recommendation to infringe any patents.