

TECHNICAL DATA AND PROCESS SHEET

20% GLASS FIBER REINFORCED PPA

INSTRUC PPAGF20

TYPICAL PROPERTIES

PROPERTY	ASTM METHOD	English	UNITS	Metric SI	UNITS
GENERAL					
SPECIFIC GRAVITY	D792	1.35		1.35	
SPECIFIC VOLUME		20.5	in ³ /lb	0.741	cm ³ /gm
WATER ABSORPTION (24 Hrs)	D570	0.25	%	0.25	%
MOLD SHRINKAGE	D955	0.4	%	0.4	%
MECHANICAL					
TENSILE STRENGTH	D638	18,000	psi	124	MPa
ELONGATION, YIELD	D638	1-3	%	1-3	%
FLEXURAL STRENGTH	D790	26,200	psi	181	MPa
FLEXURAL MODULUS	D790	1,000,000	psi	6,895	MPa
SHEAR STRENGTH	D732		psi		MPa
IZOD IMPACT STRENGTH	D256				
NOTCHED 1/8"		1.2	ft.lb./in.	64	J/m
UNNOTCHED 1/8"		10	ft.lb./in.	533	J/m
ROCKWELL HARDNESS			M Scale		M Scale
THERMAL					
HDTUL @ 264 PSI	D648	480	°F	249	°C
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696		in./in. F x10 ⁻⁵		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		275	°F	135	°C
DRYING TIME		4	hrs	4	hrs
MELT TEMPERATURE		625	°F	330	°C
MOLD TEMPERATURE		275	°F	135	°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	0.0125-0.0251	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

