



Quality Reinforced and Colored Engineering Plastics
1240 E. Glenwood Place ~ Santa Ana, CA 92707

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MATERIAL: MPBT-FG30 (F)

DESCRIPTION: PBT Polyester, 30% Glass Fiber, Natural (FDA Compliant Ingredients)

PROCESSING CHARACTERISTICS		Min / Max	VALUE
STOCK MELT TEMPERATURE	SOP	460-520	°F
MOLD TEMPERATURE	SOP	140-175	°F
DRYING TEMPERATURE	SOP	250	°F
DRYING TIME	SOP	4	hours
MAX. MOISTURE IN PROCESS	SOP	0.02	%
DRYER DEW POINT	SOP	-20	°F
GENERAL PHYSICAL PROP.	ASTM		
SPECIFIC GRAVITY	D792	1.53	gms/cc
WATER ABSORPTION	D570		
METHOD A (24 HRS.) %			
METHOD D (LONG TERM) %			
MOLD SHRINKAGE LINEAR FLOW	D955		
1/8" SECTION LINEAR FLOW		0.001-0.005	in./in.
1/8" SECTION TRANS FLOW			in./in.
MECHANICAL PROPERTIES			
IZOD IMPACT STRENGTH @ 73 °F	D256		
NOTCH 1/8" SPECIMEN		1.0-2.0	Ft.lb/in
UNNOTCHED 1/8" SPECIMEN			Ft.lb/in
TENSILE STRENGTH	D638	16,500-18,500	psi
TENSILE ELONGATION	D638	2.0-3.0	%
TENSILE MODULUS	D638	1,150,000-1,350,000	psi
FLEXURAL STRENGTH	D790	26,500-28,500	psi
FLEXURAL MODULUS	D790	1,000,000-1,200,000	psi
THERMAL PROPERTIES			
MELT FLOW RATE	D1238		gms/10 min.
DEFLECTION TEMPERATURE (under load)	D648		
UNANNEALED @ 264 psi		410	°F
UNANNEALED @ 66 psi			°F
FLAMMABILITY VERTICAL BURN	UL94	HB ²	@1.5 MM
ELECTRICAL PROPERTIES			
VOLUME RESISTIVITY	D257		Ohm.cm
DIELECTRIC STRENGTH	D149		v/mil

DATA ARE OBTAINED FROM SPECIMENS MOLDED UNDER CAREFULLY CONTROLLED CONDITIONS FROM REPRESENTATIVE SAMPLES OF THE COMPOUND DESCRIBED HEREIN. PROPERTIES MAY BE MATERIALLY AFFECTED BY THE MOLDING TECHNIQUES APPLIED AND BY THE SIZE AND SHAPE OF THE ITEM MOLDED. NO ASSURANCE CAN BE IMPLIED THAT ALL MOLDED ARTICLES WILL HAVE THE SAME PROPERTIES AS THOSE LISTED. THIS DATA IS NOT BASED ON THE MINIMUM QUANTITY OF RESULTS REQUIRED TO REPORT AS QUALIFYING SPECIFICATIONS AND MAY BE SUBJECT TO REFINEMENT. DATA HEREIN IS TYPICAL AND NOT TO BE CONSTRUED AS SPECIFICATIONS

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¹ Desiccant type dryer required. Always confirm that moisture levels are below the stated maximum before processing.

² Value per Modified Plastics, Inc.