

EnCounter F51001

PBT



Product Description					
Flame Retardant PBT					
General Properties					
Appearance	Black, Natural, Colors				
Processing Methods	Injection Molding				
Applications	Automotive, Electronics\Electrical, Business Equipment, Structural				
Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	8,000	psi	55	MPa
Tensile Elongation at Break	ASTM D638	15	%	15	%
Flexural Modulus	ASTM D790	375,000	psi	2,586	MPa
Notched Izod Impact (73°F)	ASTM D256	0.5	ft-lb/in	27	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.011 - 0.018	in/in	0.011 - 0.018	mm/mm
Flame Rating 1.500	UL 94	V-0		V-0	
Flame Rating 3.000	UL 94	5VA		5VA	
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	175	°F	79	°C
Heat Deflection Temperature @ 264 psi	ASTM D648	165	°F	74	°C
Injection Molding		Value			
Drying Temperature		250		°F	
Drying Time		3.0 - 5.0		hrs	
Maximum Drying Time		8		hrs	
Suggested Maximum Moisture		0.02		%	
Rear Barrel Temperatures		460 - 490		°F	
Middle Barrel Temperatures		470 - 500		°F	
Front Barrel Temperatures		480 - 510		°F	
Nozzle Temperature		470 - 500		°F	
Melt (processing) Temperatures		480 - 510		°F	
Mold Temperatures		150 - 190		°F	

These Data Sheet Values are Typical Values and are not intended for specification purposes. These values should only be used as a guide and no assurances by EnCom, Inc. can be granted that all molded articles will exhibit duplicate properties as those listed above. Each material user should perform their own testing for suitability.

EnCom Polymers, Inc.

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