

EnValoy F51508

PC/ABS



Product Description					
• Flame Retardant Injection Grade PC/ABS Alloy					
General Properties					
Appearance	Black, Natural or Colors				
Processing Methods	Injection Molding				
Applications	Appliance, Tool and Equipment, Electrical Components				
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	40	%	40	%
Flexural Modulus	ASTM D790	345,000	psi	2,379	MPa
Flexural Strength	ASTM D790	13,500	psi	93	MPa
Notched Izod Impact (73°F)	ASTM D256	8.0	ft-lb/in	427	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.19	sp gr	1.19	sp gr
Melt Flow 260°C/2.16 kg	ASTM D1238	15.0	g/10min	15.0	g/10min
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.006	in/in	0.006	mm/mm
Flame Rating 1.5 mm	UL 94	V-0		V-0	
Flame Rating 2.5 mm	UL 94	5VA		5VA	
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	216	°F	102	°C
Heat Deflection Temperature @ 264 psi	ASTM D648	198	°F	92	°C
Injection Molding		Value			
Drying Temperature		185	°F		
Drying Time		3.0 - 4.0	hrs		
Maximum Drying Time		4.0	hrs		
Suggested Maximum Moisture		0.04	%		
Rear Barrel Temperatures		420 - 480	°F		
Middle Barrel Temperatures		420 - 500	°F		
Front Barrel Temperatures		460 - 520	°F		
Nozzle Temperature		460 - 520	°F		
Melt (processing) Temperatures		460 - 520	°F		
Mold Temperatures		130 - 180	°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.

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