

EnValoy F53008

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	30.0	g/10min	30.0 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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