

# EnValoy F0PC/ABS

PC/ABS



Product Description						
<ul style="list-style-type: none"> <li>Flame Retardant, UV Stabilized Injection Grade Alloy</li> <li>UL Yellow Card File Number E175765</li> </ul>						
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	8,800	psi	61	MPa
Tensile Elongation at Break		ASTM D638	40	%	40	%
Flexural Modulus		ASTM D790	380,000	psi	2,621	MPa
Flexural Strength		ASTM D790	13,500	psi	93	MPa
Notched Izod Impact (73°F)		ASTM D256	10.0	ft-lb/in	534	J/m
Physical Properties		Test Method	English Units		S.I. Units	
Specific Gravity		ASTM D792	1.18	sp gr	1.18	sp gr
Melt Flow 260°C/2.16 kg		ASTM D1238	18.0	g/10min	18.0	g/10min
Mold Shrink - Flow: 0.126 in (3.20 mm)		ASTM D955	0.005	in/in	0.127	mm/mm
Flame Rating 0.0625"		UL 94	V-0		V-0	
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	201	°F	94	°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.