



奇菱科技股份有限公司

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NO.71, TE LUN RD., JEN TE HSIANG, TAINAN COUNTY 717, TAIWAN R.O.C.

## **PolyAlloy® FC-005B**

PC, Non-halogen & non-phosphate Flame Retardant, Opaque

<b>PROPERTIES</b>	<b>CONDITION</b>	<b>VALUE</b>	<b>UNIT</b>	<b>METHOD</b>
<b><u>PHYSICAL</u></b>				
Specific Gravity	23°C	1.2	---	ASTM D-792
Melt Flow Index	300°C/1.2kg	20	g/10min	ASTM D-1238
Mold Shrinkage	3.2mm	5 ~ 7	1/1000	ASTM D-955
Rockwell Hardness	23°C	R-120	---	ASTM D-785
<b><u>MECHANICAL</u></b>				
Tensile Strength @ Yield	6mm/min	600	kg/cm <sup>2</sup>	ASTM D-638
Tensile Elongation @ Break	6mm/min	100	%	ASTM D-638
Flexural Strength	1.3mm/min	900	kg/cm <sup>2</sup>	ASTM D-790
Flexural Modulus	1.3mm/min	23000	kg/cm <sup>2</sup>	ASTM D-790
Izod Impact ( 1/8" )	Notched, 23°C	60	kg-cm/cm	ASTM D-256
<b><u>THERMAL</u></b>				
Heat Distortion Temp. ( unannealed )	120°C/hr	128	°C	ASTM D-648
Vicat Softening Temp. ( unannealed )	50°C/hr	140	°C	ASTM D-1525
<b><u>FLAMMABILITY</u></b>				
Flame Rating_V0		1.5	mm	UL-94
<b><u>PROCESSING PARAMETERS</u></b>				
Drying Temperature		120	°C	
Drying Time		3~4	Hrs	
Barrel Temperature		260~290	°C	
Mold Temperature		80~120	°C	

All figures listed here is for reference, not guaranteed.

Final revised date : 2009/11