



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-005W

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

PROPERTIES	CONDITION	VALUE	UNIT	METHOD
<u>PHYSICAL</u>				
Specific Gravity	23°C	1.3	---	ASTM D-792
Melt Flow Index	300°C/1.2kg	18	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
<u>MECHANICAL</u>				
Tensile Strength @ Yield	6mm/min	560	kg/cm ²	ASTM D-638
Tensile Elongation @ Break	6mm/min	100	%	ASTM D-638
Flexural Strength	1.3mm/min	850	kg/cm ²	ASTM D-790
Flexural Modulus	1.3mm/min	22000	kg/cm ²	ASTM D-790
Izod Impact (1/8")	Notched, 23°C	45	kg-cm/cm	ASTM D-256
<u>THERMAL</u>				
Heat Distortion Temp. (unannealed)	120°C/hr	125	°C	ASTM D-648
Vicat Softening Temp. (unannealed)	50°C/hr	140	°C	ASTM D-1525
<u>FLAMMABILITY</u>				
Flame Rating_V0		1.5	mm	UL-94
<u>OPTICAL</u>				
Reflectivity @ 550nm		96	%	CLT
<u>PROCESSING PARAMETERS</u>				
Drying Temperature		120	°C	
Drying Time		3~4	Hrs	
Barrel Temperature		250~280	°C	
Mold Temperature		50~90	°C	

The technical data is tested in Chilin Lab., according to ASTM. It is provided for reference.

Final revised date : 2009/11