

## TEST 概要

- Grade : M330A White, M330AGF10 Black, **Competitor 1** PBT, **Competitor 2** PBT
- 条件 : 85°C, 85% RH(8585test)条件下, 按 ASTM标准测试物性变化。

## TEST 结果

Sample	拉伸强度[MPa]						延伸率[%]					
	0 hrs	250 hrs	500 hrs	750 hrs	1008 hrs	物性维持率(%)	0 hrs	250 hrs	500 hrs	750 hrs	1008 hrs	物性维持率(%)
<b>M330A White</b>	<b>63</b>	67	68	66	65	104	317	153	107	125	116	37
<b>M330AGF10 Black</b>	77	79	77	75	74	96	14	10	10	11	12	86
<b>Competitor 1 PBT</b>	53	53	46	27	19	37	101	23	4	2	1.1	1.1
<b>Competitor 2 PBT</b>	51	50	42	33	22	43	110	16	2	2	1.1	1.0
Sample	弯曲强度[MPa]						弯曲模量[MPa]					
	0 hrs	250 hrs	500 hrs	750 hrs	1008 hrs	物性维持率(%)	0 hrs	250 hrs	500 hrs	750 hrs	1008 hrs	物性维持率(%)
<b>M330A White</b>	61	59	60	61	58	95	1652	1455	1401	1328	1265	77
<b>M330AGF10 Black</b>	117	113	112	111	105	90	3235	3036	2949	2868	2707	84
<b>Competitor 1 PBT</b>	73	67	66	54	38	52	2109	1973	1837	1829	1773	84
<b>Competitor 2 PBT</b>	75	73	70	59	46	61	2292	2289	2239	2176	2091	91
Sample	冲击强度[J/m]						1008 hrs经过后色变					
	0 hrs	250 hrs	500 hrs	750 hrs	1008 hrs	物性维持率(%)	$\Delta E^*_{ab}$	$\Delta YI$	$\Delta Gloss$			
<b>M330A White</b>	96.2	121.9	116.0	114.8	114.1	119	4.7	8.0	-2.8			
<b>M330AGF10 Black</b>	95.9	99.1	86.7	87.7	85.5	89	0.1	-0.4	-19.7			
<b>Competitor 1 PBT</b>	55.4	54.9	44.6	36.0	16.5	30	2.9	5.3	-28.5			
<b>Competitor 2 PBT</b>	115.6	96.6	48.1	32.8	29.1	25	0.6	0.9	6.7			

- 经过1008小时, POK的物性维持率比PBT好
- 虽然PBT在颜色变化上有相对优势, 但在拉伸强度, 延伸率, 冲击强度上大幅下降, 可以判断PK作为耐久性材料具有更优秀的表现。

试片照片

