

Comparison Data of E604-9/F1B

Toray Plastics HK LTD.

Item	Unit	Test method	GF 40% standard grades									
			TORAY E604-9/F1B	CPC R-4-02	CPC R4-200NA	CPC R4-200BL	DIC FZ-1140	Tosho GS-40(11)	POLYPLASTICS 1140A6	POLYPLASTICS 1140A64	TORAY A504-X90	TORAY A504-FG1
Density	g/cm ³	ISO1183	1.66	1.65	1.65	1.65	1.66	1.66	1.66	1.66	1.65	1.65
Water absorption	%	ISO62	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02
Mold shrinkage	MD	%	0.2	0.3	0.3	0.3	0.25	0.3	0.3	0.3	0.2	0.2
	TD		0.75	0.5	0.5	0.5	1.1	0.7	0.7	0.7	0.75	0.75
Tensile strength	Mpa	ISO527-1,2	187	140	200	185	170	135	210	200	194	167
Tensile strain at break	%	ISO527-1,2	1.7	1.1	1.7	1.6	1.6	1.4	1.9	1.8	1.7	1.4
Flexural strength	MPa	ISO178	266	195	285	260	265	245	290	280	305	252
Flexural modulus	Gpa	ISO178	14.5	14	14	14	13.5	14.2	14	14	15.8	15.2
Charpy impact	J/M	ISO179-1	8	8	9	8	10	10	11	9.5	11	12
Temperature of deflection under load	0.45Mpa	C` C`	>260	>260	>260	>260	>260	>260	270	270	>260	>260
	1.8Mpa						265					
Electrical strength	kV/mm	IEC60243-1	22	18	22	22	18	16	16	16	22	22
Comparative tracking index	UL index	UL746A	4	(130)	(150)	(150)	4	(150)	4	4	4	4
Flammability	class/mm	UL94	V-0/0.2	V-0/0.71	V-0/0.39	V-0/0.39	V-0/0.36	V-0/0.38	V-0/0.38	V-0/0.38	V-0/0.28	V-0/0.28

The above values of other suppliers' grades are collected from `Enpla-DATA Book` published in 2005.

UL status of E604

