



## Modified PA Masterbatch Products List

Performance	Test condition	Testing standard	Units	B2ST	M70G6	B2G10	B2G12	B2G8L	A2G11	B2FNG5	A2FL7	B2FL6	B2FL	B2FE	TW80G9	A2ST801	A2T	TW50BG7	TW50FR6	A2FN	A2G6FE	A2MS
<b>Mechanical property</b>																						
Tensile strength	50mm/min	ISO527-1/2	Mpa	40	140	192	212	176	216	124	142	130	72	64	206	45	62	198	155	75	167	71
Elongation at break	5mm/min 50mm/min	ISO527-1/2	%	170	11	1.6	1.5	2.1	1.5	1.5	1.5	2	18	32	1.6	143	55	2.5	1.8	15	2.8	6
Bending modulus	2mm/min	ISO178	Mpa	2000	7200	10540	12300	8400	12100	5800	6500	6000	2740	2150	11200	2034	1800	10600	9300	2820	8700	2700
Bending strength	2mm/min	ISO178	Mpa	58	190	276	296	258	302	192	210	190	108	98	302	65	91	290	243	115	225	102
Charpy notched impact strength	23℃	ISO179/1eA	KJ/m2	75	18	18	18	15	18	8	8	10	8	8	16	75	30	17	9	8.5	8.5	6
Charpy unnotched impact strength	23℃	ISO179/1eA	KJ/m2	NB	75	85	80	70	80	45	45	45	NB	NB	80	NB	NB	80	50	NB	40	45
<b>Thermal</b>																						
Melting	DSC.10K/min	ISO3146	℃	220	232	225	226	225	265	225	258	225	225	220	284	258	265	280	280	255	260	260
Heat distortion temp.A	1.8Mpa	ISO75	℃		210	222	225	214	255	192	235	200			252	62	100	248	258	70		
Heat distortion temp.B	0.45Mpa	ISO75	℃		220	236	238	225	255	218	245	220			268	90		265	270	90		
<b>Electrical property</b>																						
Surface resistivity		IEC60093	Ohm	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1	1/0.1
Volume resistivity	Testsolution A	IEC60093	Ohm*cm	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1	10/0.1
<b>Physical property</b>																						
Density	23℃	ISO1183	g/cm3	1.06	1.21	1.56	1.6	1.46	1.6	1.44	1.58	1.49	1.21		1.54	1.06	1.1	1.4	1.62	1.23	1.4	1.17
Water absorption	23℃/saturation	ISO62	%			0.9	0.8	1	0.46	1.1	0.8	0.9	1.3		0.38	1.1	0.79	0.39	0.4	1.3		
Radial shrinkage	flow	ISO294-4	%		0.7											1.9	0.9	0.9	0.3		0.4	1.1
Transverse shrinkage	transverse	ISO294-4	%													1.9	0.8	0.2	0.7		0.7	1
<b>Flame retardant</b>																						
Flammability test	1.6/3.0mm	UL94			HB	HB	HB	HB	HB	V-0	V-0	V-0	V-0			HB	HB	HB	V-0	V-0	HB	HB