

Flexible Molding Material

TAFMER

## Basic Properties of Tafmer A Series

Item		Test Method	Unit	A-0550S	A-1050S	A-4050S	A-1070S	A-4070S	A-35070S	A-0585S	A-1085S	A-4085S	A-4090S	A-70090
Basic Physical Properties	MFR(190 )	ASTM D1238	g/10min	0.5	1.2	3.6	1.2	3.6	35	0.5	1.2	3.6	3.6	70
	MFR(230 )	ASTM D1238	g/10min	0.9	2.2	6.7	2.2	6.7	65	0.9	2.2	6.7	6.7	130
	ML1+4(100)	JIS K6395	-	65	40	16	40	16	-	65	40	16	16	-
	Density	ASTM D1505	kg/m <sup>3</sup>	861	862	864	870	870	870	885	885	885	893	893
Mechanical Properties	Tensile strength at break	ASTM D638	MPa	5<	3<	3<	14<	8<	2<	34<	28<	22<	24	10
	Elongation at break		%	1000<	1000<	1000<	1000<	1000<	1000<	1000<	1000<	1000<	1000<	900
	Torsional rigidity	ASTM D1043	MPa	2	2	2	3	3	3	9	9	9	14	14
	Surface hardness	ASTM D2240	Shore A	58	57	56	73	73	70	88	87	86	92	91
Thermal Properties	Melting point	ASTM D2117		50>	50>	50>	55	55	55	66	66	66	77	77
	Vicat softening point	ASTM D1525		-	-	-	41	41	41	58	56	55	61	60
	Brittleness temperature	ASTM D746		-70>	-70>	-70>	-70>	-70>	-70>	-70>	-70>	-70>	-70>	-70>
Electrical Properties	Specific volume resistivity	ASTM D257	·cm	10 <sup>17</sup> <	10 <sup>17</sup> <	10 <sup>17</sup> <	10 <sup>17</sup> <	10 <sup>17</sup> <	10 <sup>17</sup> <	10 <sup>17</sup> <	10 <sup>17</sup> <	10 <sup>17</sup> <	10 <sup>17</sup> <	10 <sup>17</sup> <
	Dielectric constant	ASTM D150	-	2.2 ~ 2.4	2.2 ~ 2.4	2.2 ~ 2.4	2.2 ~ 2.4	2.2 ~ 2.4	2.2 ~ 2.4	2.2 ~ 2.4	2.2 ~ 2.4	2.2 ~ 2.4	2.2 ~ 2.4	2.2 ~ 2.4
	Dielectric dissipation factor	ASTM D150	-	5 × 10 <sup>-4</sup> >	5 × 10 <sup>-4</sup> >	5 × 10 <sup>-4</sup> >	5 × 10 <sup>-4</sup> >	5 × 10 <sup>-4</sup> >	5 × 10 <sup>-4</sup> >	5 × 10 <sup>-4</sup> >	5 × 10 <sup>-4</sup> >	5 × 10 <sup>-4</sup> >	5 × 10 <sup>-4</sup> >	5 × 10 <sup>-4</sup> >