Item		Test method	Unit	E6008	E6006L	E6109F	E6007AS
Filler				Glass fiber	Glass fiber	inorganic	Glass fiber/inorganic
Standard molding temperature			°C	350	350	350	350
Specific gravity		ASTM D792		1.70	1.61	1.80	1.63
Water absorption coefficient		ASTM D570	%	0.02	0.02	0.02	0.02
Mold shrinkage rate	MD	Sumitomo Chemical method	%	0.18	0.19	0.25	0.31
	TD		%	1.16	0.74	1.21	1.08
Tensile strength		ASTM D638	MPa	147	164	126	121
Elongation at break			%	5.2	5.0	5.5	6.8
Flexural strength	23 °C	ASTM D790	MPa	143	153	112	126
	200 °C		MPa	33	34	-	-
Flexural modulus	23 °C	ASTM D790	MPa	12300	11300	11500	9800
	200 °C		MPa	4900	5100	-	-
Izod impact strength	6.4t notched	ASTM D256	J/m	108	137	-	-
	6.4t without notched		J/m	412	363	382	343
Shear strength		ASTM D732	MPa	51	55	-	-
Poisson's ratio		ASTM D785		0.46	0.45	-	-
Rockwell hardness		ASTM D785	R scale	103	103	91	-
DTUL		ASTM D648	°C	279	284	270	274
Soldering resistance		Sumitomo Chemical method	°C	300	300	300	300
Linear expansion coefficient (150 °C)	MD	Sumitomo Chemical method	$\times10^{-5}$/%	1.3	2.0	1.4	-
	TD		$\times10^{-5}$/%	5.6	8.9	7.8	-
Limiting oxygen index		JIS K7201		48	42	-	-
Flame retardancy	flame class	UL94		V-0	V-0	V-0	-
	color			ALL	NC,BK	BK	-
	thickness		mmt	0.3	0.3	0.81	-
Thermal conductivity		JIS R2618	W/mk	0.52	0.53	-	-
			kcal/mhr°C	0.45	0.46	-	-
Dielectric constant	(10^3Hz)	ASTM D150		4.4	4.3	-	-
	(10^6Hz)			3.9	3.7	-	-
	(10^9Hz)			-	-	-	-
Dielectric tangent	(10^3Hz)			0.022	0.023	-	-
	(10^6Hz)			0.022	0.034	-	-
	(10^9Hz)			-	-	-	-
Specific volume resistance		ASTM D257	Ωm	10^{13}	10^{13}	10^{13}	$10^{4\text{-}11}$
Arc resistance		ASTM D495	sec	130	130	-	-
Tracking resistance		IEC method	V	-	125	115	-