

Item	Test method	Unit	E5008L	E5006L	E5008	E5002L	E5204L	
Filler			Glass fiber	Glass fiber	Glass fiber	Glass fiber	Glass fiber /inorganic	
Standard molding temperature		°C	400	400	400	400	400	
Specific gravity	ASTM D792		1.69	1.60	1.69	1.45	1.21	
Water absorption coefficient	ASTM D570	%	0.02	0.02	0.02	0.02	0.02	
Mold shrinkage rate	MD	Sumitomo	%	0.05	0.02	0.06	0.07	0.57
	TD	Chemical method	%	0.81	0.86	1.25	1.27	1.70
Tensile strength	ASTM D638	MPa	123	151	111	150	89	
Elongation at break		%	3.7	4.5	4.8	4.7	5.5	
Flexural strength	23 °C	ASTM D790	MPa	127	152	127	127	93
	200 °C		MPa	39	-	39	-	-
Flexural modulus	23 °C	ASTM D790	MPa	13400	14200	12200	9510	6960
	200 °C		MPa	6370	-	5880	-	-
Izod impact strength	6.4t notched	ASTM D256	J/m	49	109	88	175	-
	6.4t without notched		J/m	324	382	441	480	343
Shear strength	ASTM D732	MPa	53	-	50	-	-	
Poisson's ratio	ASTM D785		0.44	0.48	0.41	0.51	-	
Rockwell hardness	ASTM D785	R scale	89	90	89	-	90	
DTUL	ASTM D648	°C	339	355	335	354	351	
Soldering resistance	Sumitomo Chemical method	°C	340	350	340	350	-	
Linear expansion coefficient (150 °C)	MD	Sumitomo	×10 ⁻⁵ /%	0.2	1.7	0.1	0.2	1.3
	TD	Chemical method	×10 ⁻⁵ /%	6.0	7.3	6.4	8.1	7.3

Limiting oxygen index		JIS K7201		47	-	47	-	-
Flame retardancy	flame class	UL94	mmt	V-0	V-0	V-0	V-0	V-0
	color			ALL	ALL	ALL	ALL	NC,BK
	thickness			0.3	0.3	0.3	0.3	0.29
Thermal conductivity		JIS R2618	W/mk	0.56	0.54	0.56	0.44	0.38
			kcal/mhr°C	0.48	-	0.48	-	-
Dielectric constant	(10 ³ Hz)	ASTM D150		4.7	-	4.7	-	-
	(10 ⁶ Hz)			4.2	3.7	4.2	3.4	3.1
	(10 ⁹ Hz)			-	3.4	-	3.1	2.8
Dielectric tangent	(10 ³ Hz)			0.013	-	0.015	-	-
	(10 ⁶ Hz)			0.031	0.022	0.031	0.023	0.018
	(10 ⁹ Hz)			-	0.004	-	0.004	0.003
Specific volume resistance		ASTM D257	Ωm	10 ¹³	10 ¹³	10 ¹³	10 ¹⁴	10 ¹³
Arc resistance		ASTM D495	sec	128	-	128	-	-
Tracking resistance		IEC method	V	185	-	175	-	-

