

Item	Test method	Unit	E4008	E4006L	E4205L	
Filler			Glass fiber	Glass fiber	Glass filler	
Standard molding temperature		°C	380	380	380	
Specific gravity	ASTM D792		1.70	1.60	1.18	
Water absorption coefficient	ASTM D570	%	0.02	0.02	0.02	
Mold shrinkage rate	MD	Sumitomo	%	0.10	0.11	0.66
	TD	Chemical method	%	1.32	0.78	1.67
Tensile strength	ASTM D638	MPa	150	182	82	
Elongation at break		%	5.0	5.6	5.0	
Flexural strength	23 °C	ASTM D790	MPa	139	155	85
	200 °C		MPa	39	47	-
Flexural modulus	23 °C	ASTM D790	MPa	12300	11900	5600
	200 °C		MPa	6300	5780	-
Izod impact strength	6.4t notched	ASTM D256	J/m	108	137	-
	6.4t without notched		J/m	520	461	309
Shear strength	ASTM D732	MPa	52	58	-	
Poisson's ratio	ASTM D785		0.49	0.48	-	
Rockwell hardness	ASTM D785	R scale	91	91	-	
DTUL	ASTM D648	°C	313	310	305	
Soldering resistance	Sumitomo Chemical method	°C	330	335	-	
Linear expansion coefficient (150 °C)	MD	Sumitomo Chemical method	×10 ⁻⁵ /%	1.4	0.2	-
	TD		×10 ⁻⁵ /%	6.2	8.1	-
Limiting oxygen index	JIS K7201		48	44		
Flame retardancy	flame class	UL94		V-0	V-0	V-0
	color			NC,BK	NC,BK	BK
	thickness		mmt	0.3	0.3	0.3
Thermal conductivity	JIS R2618	W/mk	0.57	0.53	0.41	
		kcal/mhr°C	0.49	0.46	0.35	
Dielectric constant	(10 ³ Hz)	ASTM D150		4.5	4.4	-
	(10 ⁶ Hz)			3.9	3.7	2.9
	(10 ⁹ Hz)			-	-	-
Dielectric tangent	(10 ³ Hz)			0.018	0.018	-
	(10 ⁶ Hz)			0.034	0.035	0.013
	(10 ⁹ Hz)			-	-	-
Specific volume resistance	ASTM D257	Ωm	10 ¹³	10 ¹³	10 ¹³	
Arc resistance	ASTM D495	sec	130	130	-	
Tracking resistance	IEC method	V	145	185	-	

