

Processing/Physical Characteristics	Value	Unit	Test Standard
Other Standards^[5]			
Molding shrinkage, parallel	0.2	%	Sumitomo Original
Molding shrinkage, normal	0.6	%	Sumitomo Original

S: These properties are reported by the producer according standards that are different to our defaults.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12500	MPa	ISO 527
Tensile Strength	120	MPa	ISO 527
Flexural modulus, 23°C	11000	MPa	ISO 178
Flexural strength	177	MPa	ISO 178
ASTM Data			
Tensile Strength	157	MPa	ASTM D 638
Flexural Modulus	11800	MPa	ASTM D 790
Flexural Strength	158	MPa	ASTM D 790
Izod Impact notched, 1/8 in	251	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	276	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thckn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.2	mm	-
Yellow Card available	yes	-	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.2	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	0.38	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (3)	0.5	mm	-
Glow Wire Ignition Temperature (GWIT)	850	°C	IEC 60695-2-13
GWIT - thickness tested (1)	0.2	mm	-
Glow Wire Ignition Temperature (GWIT)	850	°C	IEC 60695-2-13
GWIT - thickness tested (2)	0.38	mm	-
Glow Wire Ignition Temperature (GWIT)	850	°C	IEC 60695-2-13
GWIT - thickness tested (3)	0.5	mm	-
ASTM Data			
DTUL @ 264 psi	269	°C	ASTM D 648
Other Standards^[5]			
Coeff. of linear therm. expansion, parallel	20	E-6/K	Sumitomo Original
Coeff. of linear therm. expansion, normal	85	E-6/K	Sumitomo Original

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Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dissipation Factor, 1 MHz	0.026	-	ASTM D 150
Dielectric Constant, 1 MHz	3.8	-	ASTM D 150
Volume Resistivity	1E15	Ohm*cm	ASTM D 257
Other Standards^[5]			
Surface Resistivity	>1E15	Ohm	

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Other properties	Value	Unit	Test Standard
Density	1650	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	130	°C	-
Pre-drying - Time	4 - 24	h	-
Melt temperature	350	°C	-
Mold temperature	40 - 160	°C	-
Zone 1	280 - 320	°C	-
Zone 2	320 - 340	°C	-
Zone 3	340 - 360	°C	-
Nozzle temperature	340 - 360	°C	-
Screw speed	50 - 100	rpm	-
Injection pressure	80 - 160	MPa	-
Back pressure	1 - 5	MPa	-
Holding pressure	20 - 40	MPa	-

Characteristics**Processing**

Injection Molding

Delivery form

Black, Natural Color