



Model 945U(f2)(%)
File Number: E207780



COMPANY

SABIC JAPAN L L C
PACIFIC GRADES - RESIN
2-2 KINUGAOKA
MOKA-SHI, Tochigi 321-4392 Japan

MODEL INFO

Lexan: 945U(f2)(%)
Polycarbonate (PC), furnished as pellets [contains mechanically recycled content]
(f2) – Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.
(%) – WT means the specific color code 8T8D199
NOTE – Material designation may be followed by a color nomenclature consisting of either an alpha/numeric or numeric/alpha combination.

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
1.5 mm, Color: WT	V-0	
3.0 mm, Color: WT	5VA V-0	
6.0 mm, Color: WT	5VA V-0	
ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
1.5 mm, Color: WT	V-0	
3.0 mm, Color: WT	V-0	
6.0 mm, Color: WT	V-0	
Flammability		IEC 60695-11-20
3.0 mm, Color: WT	5VA	

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6.0 mm, Color: WT	5VA	
Glow Wire Ignition Temperature (GWIT)		IEC 60695-2-13
1.5 mm	800 °C	
3.0 mm	850 °C	
6.0 mm	850 °C	
Glow Wire Flammability Index (GWFI)		IEC 60695-2-12
1.5 mm	960 °C	
3.0 mm	960 °C	
6.0 mm	960 °C	
ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Hot-wire Ignition (HWI)		UL 746A
1.5 mm	PLC 3	
3.0 mm	PLC 2	
6.0 mm	PLC 1	
High Amp Arc Ignition (HAI)		UL 746A
1.5 mm	PLC 0	
3.0 mm	PLC 0	
6.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746A
Dielectric Strength	24 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 3	
Volume Resistivity	1.0E+15 ohms-cm	ASTM D257/IEC 60093
High Voltage, Low Current Arc Resistance	PLC 7	
THERMAL PROPERTIES	VALUE	TEST METHOD
Relative Thermal Index - Electrical Strength		UL 746B
1.5 mm	130 °C	
3.0 mm	130 °C	
6.0 mm	130 °C	

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Relative Thermal Index - Mechanical Impact		UL 746B
1.5 mm	115 °C	
3.0 mm	120 °C	
6.0 mm	120 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
1.5 mm	125 °C	
3.0 mm	130 °C	
6.0 mm	130 °C	
PHYSICAL PROPERTIES	VALUE	TEST METHOD
Dimensional Change	0.10 %	ASTM D1042/ISO 2796
UV Exposure & Water Immersion	f2	UL 746C

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