

Model 503R(f1)
File Number: E45329

Yellow Card™


ALSO CERTIFIED TO
IEC REQUIREMENTS

COMPANY

SABIC INNOVATIVE PLASTICS B V
EUROPE - RESIN
PLASTICSLAAN 1
BERGEN OP ZOOM, 4612 PX Netherlands

MODEL INFO

503R(f1)
Polycarbonate (PC) "Lexan", glass reinforced, furnished as pellets
(f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.
NOTE – Material designation may be followed by a color nomenclature consisting of either an alpha/numeric or a numeric/alpha combination.

FLAMMABILITY PROPERTIES	额定值	测试方法
Flammability		ANSI/UL 94
0.70 mm, Color: BK	V-0	
1.5 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	5VA V-0	
6.0 mm, Color: ALL	5VA V-0	
ISO/IEC FLAMMABILITY PROPERTIES	额定值	测试方法
Flammability		IEC 60695-11-10
0.70 mm, Color: BK	V-0	
1.5 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	V-0	
6.0 mm, Color: ALL	V-0	

Flammability		IEC 60695-11-20
3.0 mm, Color: ALL	5VA	
6.0 mm, Color: ALL	5VA	
Glow Wire Ignition Temperature (GWIT) (1.0 mm)	850 °C	IEC 60695-2-13
Glow Wire Flammability Index (GWFI) (1.0 mm)	960 °C	IEC 60695-2-12
ELECTRICAL PROPERTIES	额定值	测试方法
Hot-wire Ignition (HWI)		UL 746A
0.70 mm	PLC 3	
1.0 mm	PLC 3	
1.5 mm	PLC 2	
3.0 mm	PLC 1	
6.0 mm	PLC 1	
High Amp Arc Ignition (HAI)		UL 746A
0.70 mm	PLC 3	
1.0 mm	PLC 3	
1.5 mm	PLC 3	
3.0 mm	PLC 1	
6.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 4	UL 746A
Dielectric Strength	40 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	额定值	测试方法
Relative Thermal Index - Electrical Strength		UL 746B
0.70 mm	80 °C	
1.0 mm	80 °C	

1.5 mm	120 °C	
3.0 mm	120 °C	
6.0 mm	120 °C	
Relative Thermal Index - Mechanical Impact		UL 746B
0.70 mm	80 °C	
1.0 mm	80 °C	
1.5 mm	110 °C	
3.0 mm	110 °C	
6.0 mm	110 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
0.70 mm	80 °C	
1.0 mm	80 °C	
1.5 mm	125 °C	
3.0 mm	125 °C	
6.0 mm	125 °C	
PHYSICAL PROPERTIES	额定值	测试方法
Dimensional Change	0.0 %	ASTM D1042/ISO 2796
UV Exposure & Water Immersion	f1	UL 746C

Report Date: 1977-11-21
Revision Date: 2016-06-07

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