

Model 505R(GG)
File Number: E45329



COMPANY

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

MODEL INFO

505R(GG)
Polycarbonate (PC) "Lexan", glass filled, furnished as pellets
(GG) – Denotes a global grade formulation previously in File E161759.
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
1.1 mm, Color: BK	V-0	
1.5 mm, Color: ALL	V-0	
2.0 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	5VA V-0	
ISO/IEC FLAMMABILITY PROPERTIES	额定值	测试方法
Flammability		IEC 60695-11-10
1.1 mm, Color: BK	V-0	
1.5 mm, Color: ALL	V-0	
2.0 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	V-0	
Flammability (3.0 mm, Color: ALL)	5VA	IEC 60695-11-20

Glow Wire Ignition Temperature (GWIT)		IEC 60695-2-13
0.8 mm	825 °C	
1.1 mm	825 °C	
1.5 mm	825 °C	
2.0 mm	850 °C	
3.0 mm	850 °C	
Glow Wire Flammability Index (GWFI)		IEC 60695-2-12
0.8 mm	960 °C	
1.1 mm	960 °C	
1.5 mm	960 °C	
2.0 mm	960 °C	
3.0 mm	960 °C	
ELECTRICAL PROPERTIES		
	额定值	测试方法
Hot-wire Ignition (HWI)		UL 746A
1.5 mm	PLC 2	
2.0 mm	PLC 2	
3.0 mm	PLC 2	
High Amp Arc Ignition (HAI)		UL 746A
1.5 mm	PLC 4	
2.0 mm	PLC 4	
3.0 mm	PLC 4	
Comparative Tracking Index (CTI)	PLC 3	UL 746A
Dielectric Strength	33 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 3	
Volume Resistivity	1.0E+ 16 ohms·cm	ASTM D257/IEC 60093
High Voltage, Low Current Arc Resistance	PLC 6	
THERMAL PROPERTIES		
	额定值	测试方法
Relative Thermal Index - Electrical Strength		UL 746B

0.8 mm	80 °C
1.1 mm	80 °C
1.5 mm	130 °C
2.0 mm	130 °C
3.0 mm	130 °C

Relative Thermal Index - Mechanical Impact

UL 746B

0.8 mm	80 °C
1.1 mm	80 °C
1.5 mm	125 °C
2.0 mm	125 °C
3.0 mm	130 °C

Relative Thermal Index - Mechanical Strength

UL 746B

0.8 mm	80 °C
1.1 mm	80 °C
1.5 mm	125 °C
2.0 mm	125 °C
3.0 mm	130 °C

PHYSICAL PROPERTIES	额定值	测试方法
Dimensional Change	0.0 %	ASTM D1042/ISO 2796

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