



**SABIC INNOVATIVE PLASTICS B V**

EUROPE - RESIN, PLASTICSLAAN 1, BERGEN OP ZOOM 4612 PX NL



**MG47F**

Acrylonitrile Butadiene Styrene (ABS) "Cycolac", furnished as pellets

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.5 mm, ALL	HB	
2.0 mm, ALL	HB	
3.0 mm, ALL	HB	
4.0 mm, ALL	HB	
6.0 mm, ALL	HB	
1.0 mm, ALL	HB75	IEC 60695-11-10
1.5 mm, ALL	HB75	
2.0 mm, ALL	HB40	
3.0 mm, ALL	HB40	
4.0 mm, ALL	HB40	
6.0 mm, ALL	675	IEC 60695-2-12
Glow Wire Flammability Index (1.0 mm)	675 °C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.0 mm)	700 °C	IEC 60695-2-13
Electrical	Nominal Value	Test Method
Hot-wire Ignition (HWI)		UL 746
1.5 mm	PLC 4	
2.0 mm	PLC 4	
3.0 mm	PLC 3	
4.0 mm	PLC 3	
6.0 mm	PLC 3	
High Amp Arc Ignition (HAI)		UL 746
1.5 mm	PLC 0	
2.0 mm	PLC 0	
3.0 mm	PLC 0	
4.0 mm	PLC 0	
6.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746
Dielectric Strength	33 kV/mm	ASTM D149, IEC 60243-1
Volume Resistivity	1.0E+16 ohms·cm	ASTM D257, IEC 60093
High Voltage Arc Tracking Rate (HVTR)	PLC 3	UL 746
Arc Resistance	PLC 6	ASTM D495
Thermal	Nominal Value	Test Method
RTI Elec		UL 746
1.0 mm	60 °C	
1.5 mm	80 °C	
2.0 mm	80 °C	
3.0 mm	80 °C	
4.0 mm	80 °C	
6.0 mm	80 °C	
RTI Imp		UL 746
1.0 mm	60 °C	
1.5 mm	80 °C	
2.0 mm	80 °C	
3.0 mm	80 °C	
4.0 mm	80 °C	
6.0 mm	80 °C	
RTI Str		UL 746
1.0 mm	60 °C	
1.5 mm	80 °C	
2.0 mm	80 °C	
3.0 mm	80 °C	
4.0 mm	80 °C	
6.0 mm	80 °C	

Physical	Nominal Value	Test Method
Dimensional Stability (1.0mm)	675 °C	IEC 60695-2-12