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Component - Plastics E45329

Guide Information

SABIC INNOVATIVE PLASTICS B V

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

GPM4700(GG)(f2)$, MG38(GG)$(uv), MG38N$(uv), MG38F$(uv), MGABS01$(uv)

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

Color	Min. Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
($)	1.0	-	-	-	80	80	80
	1.5	HB	4	0	80	80	80
	2.0	HB	4	0	80	80	80
	3.0	HB	4	0	80	80	80
	6.0	HB	4	0	80	80	80

Comparative Tracking Index (CTI): 0

Dielectric Strength (kV/mm): 25

High-Voltage Arc Tracking Rate (HVTR): 2

Dimensional Stability (%): 0.73

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10^x ohm-cm): 16

Surface Resistivity (10^x ohms/square): -

High Volt, Low Current Arc Resis (D495): 5

$ - Represents all colors except blue and green. Acceptable colors are denoted by the material designation followed by any numerical value except 5 or 9 or any alpha except BL or GN.

(GG) - Denotes a global grade formulation previously in File E161759.

(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.

(uv) - Although this grade received a (f2) rating, the physical property and flammability test data were different from the other grades in this grouping.

NOTE - Material designation may be followed by a color nomenclature consisting of either an alpha/numeric or a numeric/alpha combination.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 2014-11-19

Last Revised: 2018-09-11

IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	1.5	HB, HB75 (($))
			2.0	HB, HB75 (($))
			3.0	HB, HB40 (($))
			6.0	HB, HB40 (($))
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	1.0	650
			1.5	650
			2.0	650
			3.0	650
			6.0	650
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	1.0	700
			1.5	700
			2.0	700
			3.0	700
			6.0	700
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	°C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	°C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-1	kJ/m^2	-	-