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View additional material information including performance and processing data

The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Component - Plastics E67171

Guide Information

LG CHEM LTD

128 Yeoui-daero Yeongdeungpo-gu, Seoul 07336 KR

AF312, AF312K, AF312A, AF312AR, AF312T

Acrylonitrile Butadiene Styrene (ABS), furnished as pellets

Color	Min. Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	1.0	HB	-	-	60	60	60
	1.5	V-0	3	0	85	75	75
	2.0	V-0, 5VB	3	0	85	75	75
	2.5	V-0, 5VA	3	0	85	75	75
	3.0	V-0, 5VA	1	0	85	75	75

Comparative Tracking Index (CTI): 0

Dielectric Strength (kV/mm): 30

High-Voltage Arc Tracking Rate (HVTR): 2

Dimensional Stability (%): 0

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10^x ohm-cm): 14

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

High Volt, Low Current Arc Resis (D495): 7

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.

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10, IEC 60695-11-20	Class (color)	1.0	HB, HB75 (ALL)
			1.5	V-0 (ALL)
			2.0	V-0, 5VB (ALL)
			2.5	V-0, 5VA (ALL)
			3.0	V-0, 5VA (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	2.5	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	2.5	725
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	-	-