

UL Solutions Yellow Card for plastics

Safety certification for international acceptance

Component – Plastics

ABC PLASTIC COMPANY
1000 PLASTICS ROAD, MELVILLE NY 11747-3081

Grade ABC (f1)/(f3)
Polycarbonate (PC) "TRADENAME", Recycled, furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.75	V-1	4	2	80	80	80
	1.0	V-0	3	1	120	120	120
	3.0	V-0	2	0	140	140	140

Comparative Tracking Index (CTI): 0
Dielectric Strength (kV/mm): 32
High-Voltage Arc Tracking Rate (HVTR): 0
Dimensional Stability (%): 0.0

Inclined Plane Tracking (IPT): 60 min at 1kV
Volume Resistivity (10x ohm-cm): 14
Surface Resistivity (10x ohms/square): –
High Volt, Low Current Arc Resis (D495): 5

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C
(f3) - Suitable for use with respect to exposure to detergents, bleach and solutions typically used in fluid containing parts of laundry equipment, in accordance with UL 2157
RoHS 2011/65/EU & 2015/863 Compliant Material (color: NC,BK) [view certificate](#)
UL 746H Non-Halogenated Material (color: ALL)
"Grade ABC" contains an average of 30% post-consumer recycled content. [view SPOT@certificates](#)

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: 2014-07-15
Last Revised: 2017-02-08

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UL
UL SOLUTIONS
UL CERTIFIED TO
IEC60300 REQUISITE

Performance and certification. Simplified.

As a plastics manufacturer, you undertake rigorous measures to ensure your products meet the safety standards as well as quality and performance requirements of OEMs. That's where the UL Solutions Yellow Card comes into play – as a safety and quality guarantee, and a low-maintenance marketing tool.

What is a UL Solutions Yellow Card?

The Yellow Card is a globally respected digital product information card that lists multiple safety and performance-related properties for a polymeric material evaluated by UL Solutions to appropriate standards.

With approximately 50,000 recognized plastic materials, it is the ideal way to promote material properties for use in end-product applications to global markets and to existing or potential customers.

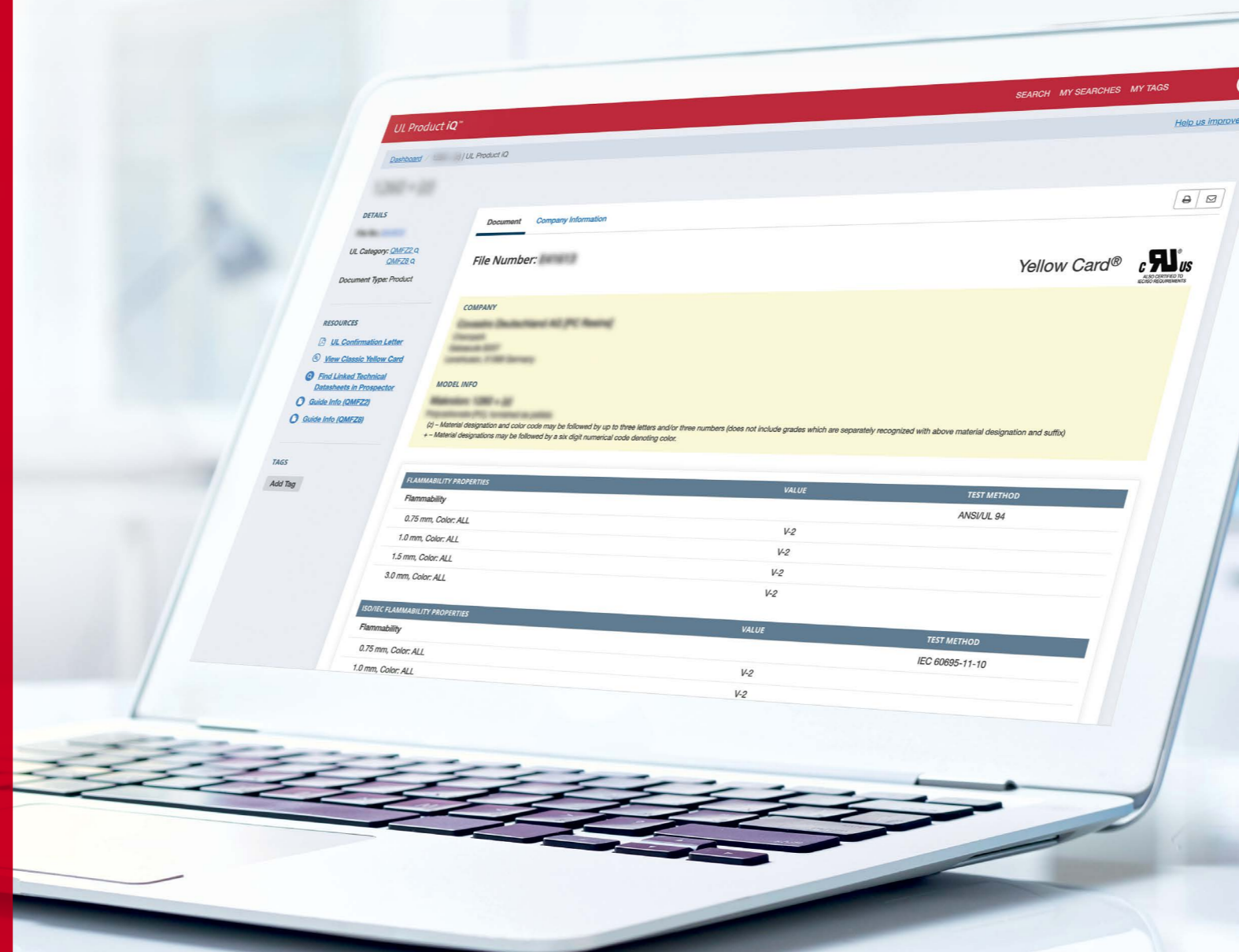
The card provides information on safety and performance-related properties in a very compact, simple and easy-to-read format.

Furthermore, it provides verification that a material is appropriate for specific applications. Manufacturers using a certified material are ensured that the material is being monitored and assessed at regular intervals by an independent UL Solutions test laboratory.

UL Solutions testing can include:

- Ignition and burning characteristics from thermal and electrical sources.
- Electrical, physical and mechanical characteristics.
- The effect of exposure to elevated temperatures, cold, water, ultraviolet rays, chemical fluids, etc.

A Yellow Card is automatically issued when polymeric materials receive a UL Recognized Component Mark. Certified materials are added to the UL Product iQ® and UL Prospector® databases – bringing immediate visibility to your Yellow Cards as thousands of designers, engineers and suppliers search and utilize our databases monthly to verify important safety and performance critical features.



Give value to end-product manufacturers

The Yellow Card helps shorten the path for manufacturers seeking certification for their end products or systems. Using UL Solutions tested and certified plastic materials, identifiable through the UL Recognized Components Mark on the Yellow Card, can save time and money by eliminating the need for further material testing.

UL Recognized Component Mark

The component recognition marking is found on a wide range of products, including some switches, power supplies, printed wiring boards, some kinds of industrial control equipment and thousands of other products. Recognized products and materials are permitted to claim compliance with the standards to which they were tested, within conditions of acceptability in the end application. In addition, for plastics materials, the UL Recognized Component Mark can be displayed with information regarding testing to international IEC and ISO standards.



Add performance credentials, boost visibility

UL Solutions Yellow Cards are not limited to certification – they can be a highly effective marketing tool. The best method to add value to a Yellow Card is to increase its coverage beyond safety certification parameters. Material manufacturers can boost product discoverability by including the performance properties their customers are looking for – all Certified by UL Solutions.

Ratings related to sustainability or restricted substances can also be found on the Yellow Card, such as:

- Recycled material, including source and percentage of the recycled content.
- Restriction of Hazardous Substances (RoHS) compliance.
- Non-halogenated material compliance.

The White Card promotes your international qualifications

The White Card, an extension at the bottom of a Yellow Card, allows you to promote your product's performance credentials to the global markets. It relates to international standards, while the information on the Yellow Card is typically relevant to North America.



ISO Tensile Strength



ISO Izod Impact



IEC Glow-Wire Flammability/
IEC Glow-Wire Ignition

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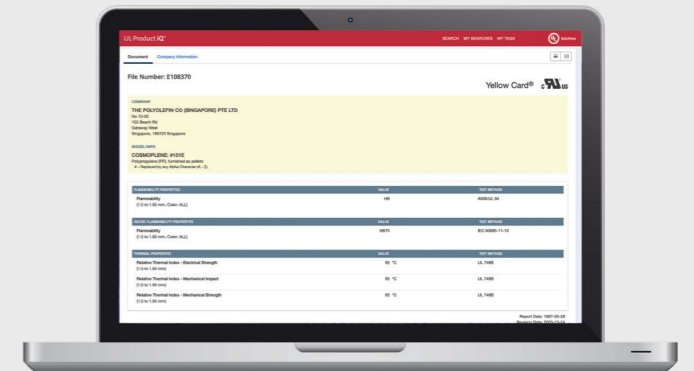
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IEC and ISO Test Methods	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.4	V-0 (BK)
			0.75	V-0 (BK)
			1.5	V-0 (BK)
			3.0	V-0 (BK)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	0.4	960
			0.75	960
			1.5	960
			3.0	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	0.4	960
			0.75	700
			1.5	700
			3.0	CTI600
			3.0	I
				130
				124
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	3.0	60
		Material Group	3.0	55
IEC Ball Pressure	IEC 60695-10-2	°C	3.0	55
ISO Heat Deflection (1.80 MPa)	ISO 75-2	MPa	3.0	18
ISO Tensile Strength	ISO 527-2	MPa	3.0	
ISO Flexural Strength	ISO 178	kJ/m ²	3.0	
ISO Tensile Impact	ISO 8256	kJ/m ²	3.0	
ISO Izod Impact	ISO 180		3.0	
ISO Charpy Impact	ISO 179-2		3.0	

Classic view of Yellow Card

Yellow Cards help manufacturers find you

UL Solutions Yellow Cards are listed in various UL Solutions databases, which end-product manufacturers use to find providers of certified materials and components. If they search for specific material properties and don't find your products, they'll choose another provider.



UL Product iQ® databases

The UL Product iQ® family of free databases is a suite of relational databases that allow users to search for UL Certified Components and review relevant safety certification and material performance data. A website link can be added to an existing Yellow Card, allowing users to quickly access a provider-specific website. The URL can lead to your company website, product brochure, contact information page or any other website. Each Yellow Card can have one unique product link. Certification information is available to users in a datasheet view as well as the classic Yellow Card view. productiq.ulprospector.com

Prospector database

UL Prospector® is the premier database for manufacturers to quickly find the precise materials they need. Bringing together thousands of suppliers, Prospector offers an online service to sort and search materials by properties, applications, safety data, performance characteristics and more. Prospector offers a Yellow Card plug-in – enabling you to showcase your compliance and performance test data in the trusted UL Solutions Yellow Card format on your own company website. ULProspector.com

Want to know more about how to read the UL Solutions Yellow Card?

More information on the properties and information on the Yellow Card [can be found in our interactive Guide.](#)



[UL.com/Solutions](https://www.ul.com/Solutions)

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