



Non-halogen Certification for Plastics (QMFZ2)

UL's non-halogen Certification for plastics (QMFZ2) gives companies the opportunity to achieve third-party certification to demonstrate that the plastic material is free of halogens.

There is a growing industry challenge in which non-halogenated materials are being specified, yet compliance criteria is not clear or consistent. As a result, the industry is confused as to what is considered "halogen free" and different suppliers/users have different interpretation of the requirements.

UL is helping to address this need and has developed a solution to help customers demonstrate compliance, clearly and credibly.



Overview

The non-halogenated, and non-chlorine & non-bromine certification program for plastics (QMFZ2) tests and certify materials meeting UL's Outline of Investigation for Non-halogenated Materials (UL 746H). This outline evaluates materials to two different rating schemes:

1. Non-halogenated - evaluates materials with respect to fluorine, chlorine, and bromine content
2. Non-chlorine & non-bromine - evaluates materials with respect to chlorine and bromine

Benefits of the Program

UL's non-halogenated, and non-chlorine & non-bromine certifications provides easy and independent means for specifiers and other purchasers to search and find plastics rated for their halogen contents. Plastic materials with these ratings will be included in UL's *iQ™* and *Prospector®* databases. These ratings can be easily searched and verified, providing confidence that all materials meet the same requirement via globally recognized standards and test methods.

The primary program benefits include:

- Rating visible on UL's *iQ™* and *Prospector®* database
- Elimination of repetitive lot testing
- Creates level playing field for industry
- Globally recognized standard / test methods
- Ability to communicate non-halogenated certification clearly and credibly from UL, a trusted third-party certifier

Plastic materials certified for the non-halogen or non-chlorine & non-bromine rating will also demonstrate ongoing compliance through UL's Follow-up Service (FUS) program, a requirement of the UL Certification program. This program determines that plastic materials continue to comply with UL's requirements as through periodic unannounced factory inspections and sample selection for testing. This eliminates the need for repetitive self-declaration and lot testing for each individual plastics purchaser, saving valuable time and money for both a plastics producer and user.

For more information, please visit www.ul.com/contactus

UL LLC

Grade 101

Acrylonitrile Butadiene Styrene (ABS), furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	1.5	HB	4	0	60	60	60
	3.0	V-0	4	0	60	60	60

Comparative Tracking Index (CTI): 0

Inclined Plane Tracking (IPT): -

Dielectric Strength (kV/mm): 32

Volume Resistivity (10° ohm-cm): 15

High-Voltage Arc Tracking Rate (HVTR): -

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

Dimensional Stability (%): -

UL 746H Non-Halogenated (color: ALL)
- or -
UL 746H Non-Chlorine & Non-Bromine (color: ALL)

Promoting Non-halogenated or Non-chlorine & Non-bromine Plastics

Customers that meet these requirements can advertise through various print and digital outlets that their plastic materials are “UL Recognized Components and meet UL’s 746H Outline of Investigation for Non-halogenated (or Non-chlorine & Non-bromine) rated materials.” This provides a valuable marketing tool to demonstrate that your company has successfully met stringent standards.

Getting Started

For additional questions or to get started, please contact your local Customer Service Professional at www.ul.com/contactus or contacts Sales at PMSales@ul.com.

For more information, please visit www.ul.com/contactus