

DRUM LABEL Portfolio



Chemical drums transporting dangerous goods are subject to stringent safety regulations. BS 5609 label certification is a specification for the durability of labels on chemical containers when being transported by merchant shipping. The labels and markings on containers shipped or stored in these marine environments must meet standards for adhesion, resistance to abrasion and print permanence. There are two key sections—Section 2 and 3. Section 2 details the tests to be carried out on the blank pressure-sensitive, adhesive-coated base material, and Section 3 deals with the printed label.

Applications include labeling of drums and containers used to transport petroleum, paint and liquid or powder chemicals that are designed to hold up under extreme conditions. These labels are typically used for content identification, warning and instructional labeling.

What is Global Harmonized System of Classification and Labeling of Chemicals (GHS)

GHS is a system that's been created by the United Nations for Standardizing the classification and labeling of chemicals throughout the world. In the US, OSHA is enforcing GHS by adopting into its Hazard Communication standards by:

- Effective June 1, 2015, hazardous chemicals crossing international waters must meet new GHS safety standards.
- Defining environmental, physical and health hazards from chemicals
- Communicating these hazards and protective measures on labels and safety data sheets
- Under the GHS standard, labels include pictograms, hazard and precautionary statements on durable labels to ensure workers are informed and to prevent possible dangers.

Mactac® Drum Label Portfolio

Who is affected by GHS and who has to comply?

GHS affects any company that uses or has chemicals within the workplace. All employers who have hazardous materials or chemicals are required to have labels and safety data sheets for any employee who could possibly be exposed.

New GHS Standard goes into effect June 1, 2015 – this is the deadline for manufacturers to start using new labels.

For shipments within the continental United States:

Any ink will work for GHS, however as always it is recommended that the ink and label are tested for specific applications to insure it meets specifications.

For shipments on international waters:

The IMDG (International Maritime Dangerous Goods) requires a BS5609 certification. This British Standard requires resistance to marine immersion (salt water), weathering (UV exposure), temperature cycling and abrasion. The ink and label must be approved as a combination.

Goals of GHS:

- Improve SAFETY with the transportation and handling of Hazardous Materials
- Adoption of GHS brings the US up to the International Standard

Mactac® Certification:

Mactac has received BS 5609 Section 2 and Section 3 label certification tested by third-party, Smithers Pira International, to provide our customers with a portfolio of solutions that can confidently meet recognized standards for durability and environmental resistance for chemical container labeling.

| Product Code | Facestock | Adhesive | Liner | BS 5609: 1986, Section 2 | BS 5609: 1986, Section 3 | Print Method |
|--------------------|----------------------------------|----------|----------|--------------------------------|--|--------------------------|
| BDE6914 | 2.6 mil Matte White BOPP | MP690 | 3.2 SCK | √ | iimak Black Resin: SP330 & SP575, Ruby Red Resin: DC300, Green Resin: DC300, Bright Blue Resin: DC300, Yellow Resin: DC305 | Flexo & TT printable |
| DSS4501 | 3.0 mil Matte White Polyethylene | 705VHP | 2.45 SCK | √ | | Flexo & TT printable |
| FCD6914 | 2 mil Gloss White Polyester | MP690 | 3.2 SCK | √ | ITW Thermal Films Black Resin: B324 & B325 and Red Resin: B324R; DNP Black Resin: R300 and Red Resin: R510; iimak Black Resin: SP330 & SP575, Ruby Red Resin: DC300, Green Resin: DC300, Bright Blue Resin: DC300, Yellow Resin: DC305 Armor SAS Black Resin: AXR8, AXR 7+, AXR 600 and Red Resin: AXR 600R | Flexo & TT printable |
| FDD6919 | 2 mil Matte White Polyester | MP690 | 3.4 C1S | √ | iSys Label EDGE 850 Digital Label Printer & Toner Primera CX1200 & CX1000 Color Digital Printer | Laser & Impact printable |
| JK4511 (Custom) | 5 mil Kimdura Ink Jet | 705VHP | 3.2 SCK | √ | Epson C831 Pigmented Ink Jet; Epson C3500 Pigmented Ink Jet; NeuraLabel 300x Pigmented Ink Jet | Pigmented Ink Jet |
| JK8011 | 5 mil Kimdura Ink Jet | MF2030 | 3.2 SCK | √ | Epson C831 Pigmented Ink Jet; Epson C3500 Pigmented Ink Jet; NeuraLabel 300x Pigmented Ink Jet Primera LX2000 Pigmented Ink Jet | Pigmented Ink Jet |
| PJ6914 | 2.6 mil Gloss White BOPP | MP690 | 3.2 SCK | √ | iSys Label EDGE 850 Digital Label Printer & Toner Actega Optafilm Flexo Inks Yellow, Red, Blue and Black | Flexo & TT printable |
| PTW4511 | 2.3 mil Gloss White BOPP | 705VHP | 3.2 SCK | √ | ITW Thermal Films Black Resin: B325 Actega Optafilm Flexo Inks Red, Gray | Flexo & TT printable |
| VDG6911 | 3.4 mil Matte White Vinyl | MP690 | 3.2 SCK | √ | ITW Thermal Films Black Wax-Resin: B128 and Red Wax-Resin: B120 Actega Optafilm Flexo Inks Yellow, Red, Blue and Black | Flexo & TT printable |
| VDG9511 | 3.4 mil Matte White Vinyl | ST-95 | 3.2 SCK | √ | | Flexo & TT printable |

BS 5609:1986, Section 2 – Marine and Laboratory performance of label base materials.

BS 5609:1986, Section 3 – Laboratory Performance of Printed Labels

Test certificates are also available on Mactac.com.



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