

RANGE/ ITEM

'Spill Stop' Guards

SUPPLIER:Kuhn Rikon (UK) Ltd
Landport Road
Wolverhampton
WV2 2QJ**TESTS:**BS EN 15284:2007
Resistance to microwave heatingBS EN 13834:2007+A1:2009
Clause 6.1.8 Article Heat Resistance**REPORT:**

G1363

**Testing Limited**Suite 4, The Baldwin Centre,
Wilden, Stourport on Severn,
Worcestershire, DY13 9JT

Phone: 01299 829 200

Fax: 01299 829 222

amstel@labfinder.net

www.amsteltesting.com

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TEST REPORT

DESCRIPTION:

Silicone rubber 'Spill Stop' splatter guards. The items measured approximately 29 cm in diameter.

ITEMS RECEIVED:

'Spill Stop' guards in (main colour) red, blue, green, purple.

RESULTS:

Pass: The samples passed the clauses for which they were tested.

TESTED BY:

A. Homer,
Alan Homer Laboratory Manager

5th December 2011

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$ providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

TEST REPORT

BS EN 15284:2007

Resistance to microwave heating

5.2 Calibration of microwave oven

The microwave oven was calibrated in accordance with BS EN 15284:2007 and the power output calculated using the following equation:

$$P = \frac{4,187 \times \Delta T}{t} (m_w + 0.55m_c)$$

where

P is the microwave power in Watts

ΔT is the difference between initial & final water temperature

t is the time in seconds

m_w is the mass of water in grams

m_c is the mass of the container in grams

The microwave power was calculated to be 600 Watts

5.2 Determination of heating time

The heating time was calculated to give energy values of 72,000J for the short period and 468,000 J for the long period using the following equation:

$$t = \frac{E}{P}$$

where

t is the time in seconds

P is the microwave power output in Watts

E is the energy required in Joules

The short heating time was calculated as 2 mins 11 secs

The long heating time was calculated as 14 mins 11 secs

6.6 Maximum temperature of handles after short period heating

For the following materials the maximum surface temperature of the handles should not exceed those specified when tested to the method described in the Standard

Material	Allowed Temperature	Maximum Temperature Found*	
Plastics	60°C	29°C	*PASS

*The test was carried out on the red, blue and purple samples.

The measured result is below the upper limit, even when extended by half the uncertainty interval. The sample therefore complies with the standard.

When inspected according to the criteria in table 1 of the Standard, following the long heating time, there was no noticeable cracking, melting or deformation of the samples. The articles were passed as suitable for re-use.

PASS

Ambient temperature of laboratory during the test was 19°C

BS EN 13834:2007+A1:2009

Clause 6.1.8 Article Heat Resistance

6.1.8 Heat Resistance

All items of ovenware shall show no signs of damage after testing as specified in Annex A for a temperature of 20°C above the manufacturer's recommended maximum temperature for 1 hour, or if none stated, 250°C.

* the item was tested at 250°C

PASS*

End of Report