

## Detectamet Food Contact Specification Data Sheet

### Declaration of Compliance Statement – 154D – Silicone Rubber Lanyard Blue

#### Applicable Products:

Product code	Product Description
154D-P01-1183	Silicone Rubber Lanyard Blue

TECHNICAL SPECIFICATIONS				
QUALITY : BLUE METAL DETECTABLE SILICONE RUBBER SHEETING CODE : SM1442				
PROPERTIES	TEST METHOD	VALUES	TEST METHOD	VALUES
		FPS UNITS		METRIC UNITS
SPECIFIC GRAVITY	ASTM D297	1.3	DIN 53508	1.3
HARDNESS	ASTM D2240	80 ± 5 Sh A	DIN 53505	80 ± 5 Sh A
TENSILE STRENGTH ( min )	ASTM D412	858 PSI	DIN 53504	60 kg/cm <sup>2</sup>
ELONGATION AT BREAK ( min )	ASTM D412	300%	DIN 53504	300%
COMPRESSION SET (70° C/24 hrs/25% set) (max)	ASTM D395 METHOD B	45%	DIN 53517	45%
TEAR RESISTANCE ( Angular ) min	ASTM D624	95 Lbs/Inch	DIN 53515	17 Kg/cm
CHANGE IN PROPERTIES				
HEAT AGEING ( 72 hrs. AT 100 °C )	ASTM D573			
--- HARDNESS (Pts)		+ 1 (Max)		+ 1 (Max)
--- TENSILE STRENGTH (%)		+ 5 / - 5		+ 5 / - 5
--- ELONGATION AT BREAK (%)		+ 5 / - 5		+ 5 / - 5
VOLUME SWELL : AT 70°C FOR 72 HRS/IN	ASTM D 471			
ASTM OIL NO.1		NA		NA
ASTM OIL NO.2		NA		NA
ASTM OIL NO.3		NA		NA
CHEMICAL RESISTANCE				
--- OZONE	ASTM D 1149	EXCELLENT		EXCELLENT
--- DILUTE ACIDS AND BASES		FAIR		FAIR
--- CONCENTRATED ACIDS AND BASES		FAIR		FAIR
--- OILS		FAIR		FAIR
--- SOLVENTS		FAIR		FAIR
TEMPERATURE RANGE		-60 °to + 200 °C		-60 °to + 200 °C
COLOUR		RAL 5028 Blue		RAL 5028 Blue

**Test Results:****US FDA 21 CFR 177.2600 (Rubber Articles) – Determination of Amount of Extractives**

Method : With reference to US FDA 21 CFR 177.2600.

For use in contact with aqueous food:

Extractants	Test Condition	Result (mg/inch <sup>2</sup> )	Reporting Limit (mg/inch <sup>2</sup> )	Permissible Limit (mg/inch <sup>2</sup> )
Distilled Water	Reflux temperature for 7 hours	ND	0.1	20
	Succeeding 2 hours of extraction	ND	0.1	1
<b>Comment</b>	--	PASS	--	--

For use in contact with fatty food:

Extractants	Test Condition	Result (mg/inch <sup>2</sup> )	Reporting Limit (mg/inch <sup>2</sup> )	Permissible Limit (mg/inch <sup>2</sup> )
n-Hexane	Reflux temperature for 7 hours	ND	0.1	175
	Succeeding 2 hours of extraction	ND	0.1	4
<b>Comment</b>	--	PASS	--	--

**SAMPLE DESCRIPTION : RUBBER SHEET**

- Note : 1. mg/inch<sup>2</sup> = milligram per square inch  
 2. ND = Not Detected  
 3. Test Condition has been provided by client.