

Wpim01-Silicone 70 compound

Wpim01 is a specialist grade, X-ray- and metal detectable silicone compound with FDA 21 CFR 177.2600 and EC1935:2004 compliance for food contact applications.

Description

Chemical composition: Methyl-vinyl silicone rubber
Physical form: O-rings, moulded parts
Colour: Blue
Temperature resistance: -60°C to +220°C

X-ray detectability

In low contrast compositions from 2mm of material and in both low- and high contrast compositions from 6mm of material

Application

Food contact

Metal detectability

At high frequencies, multiple sensitivities and fase 90° from 2mm of material and at low frequencies from 6mm of material

Compliances

FDA 21 CFR 177.2600
EC1935:2004
ADI, REACH, RoHS

It is the responsibility of the user to test and approve the metal detection of this product due to variations in the metal detection systems and required sensitivity settings.



Table 1: Physical properties

Property	Test standard	Value	Unit
Hardness	ISO 48	70±5	IRHD
Elongation at break	ISO 37	205	%
Tensile strength	ISO 37	5.8	MPa
100% Modulus	ISO 37	3.3	MPa
Compression set – 24 hours at 175°C Slab	ISO 815	11	%

Table 2: Ageing properties

Property	Test standard	Value	Unit
Heat ageing – 70 hours at 225°C	ISO 188		
Hardness change		-1	IRHD
Elongation at break change		-17	%
Tensile strength change		-1.1	%

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