

LABORATORIO ITALIANO GOMMA

То

CERISIE

ORINGONE S.r.I.

Date, June 22nd, 2021

TR n° 385-B-(eng) /2021

Via Tribolina, 14/18

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24064 Grumello del Monte (BG)

Received

31.05.2021

Start tests 07.06.2021

End tests 22.06.2021

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EST R E P OR T

Subject: TEST ON A VULCANIZED RUBBER COMPOUND ACCORDING TO "3-A SANITARY STANDARDS OF A MULTIPLE-USE RUBBER AND RUBBER-LIKE MATERIALS USED AS PRODUCT CONTACT SURFACES IN DAIRY EQUIPMENT, NUMBER 18-03"

VULCANIZED RUBBER COMPOUND	EPDM BLA RDM FD	ACK	Tests Methods	Requirements Class II	<u>Table</u>
Original physical properties		2242			C 3.1
Tensile strengthElongation	psi %	2360 215	ASTM D 412:2006 ASTM D 412:2006	min 1100	
Hardness	Shore A ³ points	72	ASTM D 412:2006 ASTM D 2240:2005	min 100	
- Haraness	Shore A points		ASTM D 2240.2005		
Change in properties after air aging for 166 hours at 212°F (100°C)			ASTM D 573:2004		C 2.2.3
Change in Hardness	Shore A ³ points	+2	ASTM D 2240:2005	max ±10	
Change in properties after immersion in butter oil for 22 hours at 158°F (70°C)			ASTM D 471:2006		C 2.1.1 Low fat
 Change in Hardness 	Shore A ³ points	-10	ASTM D 2240:2005	max ±15	
 Change in Mass 	%	+16		max ±25	
 Change in Volume 	%	+21		max ±25	
Change in properties after immersion in distilled water for 22 hours at 158°F (70°C)			ASTM D 471 :2006		C 2.2.2
 Change in Hardness 	Shore A ³ points	+1	ASTM D 2240:2005	max ±5	
Change in Mass	%	0.86		$max \pm 10$	
 Change in Volume 	%	1.0		max ±10	







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T E S T R E P O R T

VULCANIZED RUBBER COMPOUND	CODICE Z5 EPDM BLA RDM FD	ICK	Tests Methods	Requirements Class II	<u>Table</u>
Change in properties after immersion in nitric acid for 22 hours at 180°F (82°C)			ASTM D 471:2006		D 4.6
 Change in Hardness Change in Mass Change in Volume Visual Change 	Shore A ³ points % % Observation	1.3 1.4	ASTM D 2240:2005	max ±10 max ±15 max ±15 None	
Change in properties after immersion in alkaline cleaner for 22 hours at 180°F (82°C)			ASTM D 471:2006		D 4.8
Change in HardnessChange in MassChange in VolumeVisual Change	Shore A³ points % % Observation	1.0 1.1	ASTM D 2240:2005	$\begin{array}{c} \text{max} \pm 10 \\ \text{max} \pm 10 \\ \text{max} \pm 10 \\ \text{None} \end{array}$	
Change in properties after immersion in chlorine sanitizer for 22 hours at 70°F (21°C)			ASTM D 471:2006		D 4.9
Change in HardnessChange in MassChange in VolumeVisual Change	Shore A ³ points % % Observation	0.21 0.18	ASTM D 2240:2005	$\max \pm 5$ $\max \pm 10$ $\max \pm 10$ None	

STATEMENT:

THE RESULTS OF THE TESTS ON THE VULCANIZED RUBBER COMPOUND MARKED CODICE Z535 — EPDM BLACK RDM FDA ARE IN COMPLIANCE WITH THE REQUIREMENTS OF THE 3-A SANITARY STANDARDS NUMBER 18-03-CLASS II.

The sampling has been carried out by the Customer.

The contained results refer only to the tested sample.

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