

**CERISIE**

LABORATORIO ITALIANO GOMMA

**CERISIE**

To:

RAPI-GOM S.r.l.

Manzoni n.8

Date, November 17th, 2020TR n° **539-(eng)/2020**

Ref. Your confirm dated 08.10.2020

24060 Villongo (BG)

Received:

23.10.2020

Start tests:

26.10.2020

End tests:

17.11.2020

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T E S T R E P O R T**Subject:** TESTS ACCORDING TO UNI EN 682 CLASS GAL, cat. 70, ON A COMPOUND MARKED **NBR 70 "SIENA71"** SUPPLIED AS VULCANIZED PLATES 2 AND 6 mm THICKNESS.**Sample****NBR 70 "SIENA71"****Test methods****Limits**
UNI EN 682

<u>Hardness</u>	IRHD	71	ISO 48-2:2018	70 ± 5
<u>Tensile test</u>			ISO 37:2017	
• Tensile strenght	MPa	16.6	Type 2	≥ 10
• Elongation at break	%	335		≥ 200
<u>Ozone resistance</u> (50 pphm, 48 hours, 40 °C, el. 20%)	No cracking visible with the naked eye		ISO 1431- 1:2012	No cracking visible with the naked eye
<u>Stress relaxation after 7 days at 23 °C</u>	%	10	ISO 3384- 1:2019	≤ 14
<u>Stress relaxation at 23 °C</u> <u>Extrapolation up to 90 days</u>	%	14	ISO 3384- 1:2019	≤ 20
<u>Compression Set</u> Def. 25 % for 72 h at 23°C	%	6	ISO 815-1:2015 Type B	≤ 10
<u>Compression Set</u> Def. 25 % for 24 h at 70°C	%	7	ISO 815-1:2015 Type B	≤ 18
<u>Compression Set</u> Def. 25 % for 72 h at -5°C	%	24	ISO 815-2:2015 Type B	≤ 25
<u>Compression Set</u> Def. 25 % for 72 h at -15°C	%	42	ISO 815-2:2015 Type B	≤ 50

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T E S T R E P O R T

<u>Sample</u>	<u>NBR 70 "SIENA71"</u>	<u>Test method</u>	<u>Limits</u> UNI EN 682
<u>After air aging for 168 h at 70 °C</u>		ISO 188:2011	
<u>Hardness</u>	IRHD 72		
• Hardness variation	IRHD +1	ISO 48-2:2018	±5
<u>Tensile test</u>		ISO 37:2017	
• Tensile strenght	MPa 17.7	Tipo 2	
• Change from original	% +6.6		±15
• Elongation at break	% 329		
• Change from original	% -1.8		Max -25 / +10
<u>After immersion in Liquid B for 168 h at 23 °C</u>		ISO 1817:2015	
• Change in Volume	% +34.3		Max +30
<u>After immersion in Liquid B for 168 h at 23 °C and subsequent drying in air 168 h at 70 °C</u>		ISO 1817:2015	
• Change in Volume	% -5.8		Max -10
<u>After immersion in IRM 903 for 168 h at 70 °C</u>		ISO 1817:2015	
• Change in Volume	% +8.3		Max -1 / +10

The sampling has been carried out by the Customer.

The contained results refer only to the tested sample.

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Operator


M. Bonora

Director


F. Negroni