

ŁUKASIEWICZ (Logotype)	ŁUKASIEWICZ RESEARCH NETWORK INSTITUTE FOR ENGINEERING OF POLYMER MATERIALS AND DYES 87-100 Toruń, Marii Skłodowskiej-Curie 55
	Paints and Plastics Center 44-100 Gliwice, Chorzowska 50 A Research Laboratory of Polymer Plastics

Research report No.GT/214a/2021

Reference No. GT.4130.225.2021

Testing type	Tested subject	Client's name and address
Elasticity modulus in pressure Dimension stability	GP board	GP ECO Sp. z o.o. Stalowa 4 47-400 Racibórz

SPECIMEN		TESTS	
Number	Accepted	Started	Completed
214/20211	31st August 2021	6th September 2021	27th September 2021

Performed by: **Małgorzata Baran**
/Name, Surname/ (signature)

Kornelia Wyka
/Name, Surname/ (signature)

Research report compiled by: **Małgorzata Baran**
/Name, Surname/ (date and signature)

Distribution list:

- Client
- GT

Authorised: **Błażej Chmielnicki**
/Name, Surname/ (date and signature)

Approved:
(stamp, date and signature)

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Specimen Description:

The client provided for testing 3 boards with dimensions of 800mm by 120 mm made of polyvinyl chloride in black color, described as *GP board*.

The sample was assigned with the number 214/2021.

Testing description:

The following tests were performed:

1. Determination of the elasticity modulus in stress in accordance with the PN-EN ISO 604: 2006 standard - Plastics - Determination of compression properties using the following test parameters and conditions:

- test temperature: 22.6 ° C,
- before testing, the samples were conditioned under the measurement conditions for 24 hours,
- type of test piece: square with a side of about 50 mm,
- test pieces were cut by machining,
- number of test pieces: 5
- test speed: 1 mm / min,
- the examination result presents an average value and standard deviation

2. Dimensional stability after exposure to increased temperature in accordance with the PN-EN ISO 23999:2018-10 standard - Resilient floor coverings — Determination of dimensional stability and curling after exposure to heat using the following test parameters and conditions:

- type of test piece: square with a side of about 240 mm
- test pieces were cut by machining out of 3 different areas of the tested board,
- test temperature: (80 ± 2) °C
- time of heat exposure: 6h
- number of test pieces: 3
- the examination result presents maximum dimensional change, mean value and standard deviation

Test results: are compiled in Table 1.

Wz-43/XII of 17.05.2021

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Table 1 Test results of the sample No. 214/2021

Tested parameter	Test method	Method status*	Unit	Test result		
				Mean value	Standard deviation	
Elasticity modulus in pressure	PN-EN ISO 604:2006	C	MPa	89,1		
Dimensional change after exposure to heat	PN-EN ISO 23999:2018-10	C	mm	Max 2,12	0,29	<i>0,81</i>
			%	Max 1,07	0,3	<i>0,31</i>

Method status /*: C – testing method not covered by the quality management system

End of the report

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/Report compiled by, signature/