



TEST REPORT No.: ETR-21-0575

 Unique identification code of the product type:

«Bronya Classic NF» thermal insulating dispersion thin plaster / non-flammable

2. Intended use:

Factory-made, pre-mixed thermal insulating plaster with organic binder for outdoor and indoor use, suitable for plastering walls, partitions and ceilings

3. Manufacturer:

NPO «BRONYA» LLC

13A. Batalionnaya St., 400005 Volgograd

Russian Federation

4. Authorised representative:

GOUP FOUR for Maintenance and Services Road 3616, Block 436, Bldg 742, Office 75,

P.O. Box 26999

Seef Aarea, Kingdom of Bahrain

VAT; 22000636670002

ASTM E1980-11

5. Harmonised standard:

Notified Body:

EELab-Dipatimento di ingegnaria «Enzo Ferrari»

Via Vivarelli 10, 41125 Modena, Italia VAT code/Partita IVA: 00427620364

Identification number:

6. Performance(s) stated in the declaration:

Test Date		Solar	Reflectance Index (S	RI)[%]		
		Low wind	Medium wind	High Wind		
21/12/2021	Value	89.5	91.0	91.8		
		Surfa	Surface temperature (ST) [°C]			
		55.0	48.0	42.4		
Test method		ASTM E1980-11	7			

Notes This calculation was performed according to ASTM E1980-11: Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces. This utilizes the following values for the convection coefficient: h_c = 5 W/m²·K for low-wind (0 to 2 m/s), h_c = 12 W/m²K for medium-wind (2 to 6 m/s), and h_c = 30 W/m²K for high-wind (6 to 10 m/s).

Person signing for and behalf of the manufacturer:

Date

NPO «BRONYA» LLC CEO Boyarincev A. Name, surname and seal of the authorized person





































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TEST RESULTS

Test Date		Solar Reflectance (SR)	Standard Deviation	Measured Values				
21/12/2021	Value	0.749	0.006	0.754	0.741	0.752	0.753	0.745
	U(k=2, P=95%)	(±0.010)	BAND CHAR	THE SCHOOL	THE NE TO LINE	ION NEOD		3110163
Test	method	ASTM C1549-09		-	0.00	MIN OF	100	
Reference S	olar Spectrum	ASTM E 891- 87 Direc	ct normal	relative.	io maistra?i	mark best		

This test was performed according to ASTM C1549-09: Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Reflectometer with air mass 1.5. A solar spectrum reflectometer Devices and Services SSR-ER was used. Calibration standards with low (0.000) and high (0.864) solar reflectance were provided by the instrument manufacturer. Measurements were conducted at ambient temperature of 21 ± 1°C and relative humidity of 45% ± 10%.

Test Date		Infrared Emittance (IE)	Standard Deviation	Measured Values		
21/12/2021 Value	0.811	0.005	0.816	0.807	0.811	
	U(k=2, P=95%)	(±0.055)			The second second	NEW WAY
Test	nethod	ASTM C1371-15				

Notes This test was performed according to ASTM C1371-15: Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers. An emissometer with scaling digital voltmeter Devices and Services AE1 RD1 was used. Calibration standards with low (0.060) and high (0.870) emittance were provided by the instrument manufacturer.

Measurements were conducted at ambient temperature of 21 ± 1°C and relative humidity of 45± 10% in a time period of about 1 h.

Test Date		Solar Reflectance	Infrared	Solar	Reflectance Index (SRI)[%]		
	(SR)	Emittance (IE)	Low wind	Medium wind	High Wind		
21/12/2021 Value	0.749	0.811	89.5	91.0	91.8		
			Surface temperature (ST) [°C]				
			55.0	48.0	42.4		
Test me	thod	ASTM E1980-11					

Notes This calculation was performed according to ASTM E1980-11: Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces. This utilizes the following values for the convection coefficient: h_c = 5 W/m²·K for low-wind (0 to 2 m/s), h_c = 12 W/m²K for medium-wind (2 to 6 m/s), and h_c = 30 W/m²K for high-wind (6 to 10 m/s).

The Responsible of EELab Laboratory (Prof. Alberto Muscio)









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GENERAL INFORMATION

Subject:	Test report on testing activities to determine solar reflectance, infrared emittance and so index (SRI)				
Client	GOUP FOUR for Maintenance and Services Road 3616, Block 436, Bldg 742, Office 75, P.O. BOX 26999 Seef Area, Kingdom of Bahrain VAT: 22000636670002	Client reference person	Mr. Ram Mohan Kutty phone: +973 17225373 email: rmk@groupfourservices.com PEC: -		
Commitment MO_GC_05 dated 15/12/2021 sent by Ram Mohan Kutty		Report release date	23/12/2021		
Notes					

SAMPLE DATA

Draduat name	DDONNA NE						
Product name	BRONYA NF		SI-TONE TO A				
Manufacturer	Bronya St. Lavraneva 21 Volgograd - Russia		6-3				
Short physical description	Product type: Water- vacuum microsphere Surface aspect and/o Substrate: metal	es		n coating. Hol	low	The Smilning of the Smilning o	
Sample thickness	3.5 mm	Total s	ample size	6 x 6 cm			
Surface coated	YES					3-	
Information on history and ageing	N.A.	o se				2-10	
Other information			A Section 1970	nonie partie			
Receipt date	21/12/2021	in the s				2. Janian hadradanhad	untanimhanimata
Sample id. sub.	-					Sample p	icture
ECRC id	•All the light has	125\E \ 1	Marine Sand	2007			
Sampling	Carried out by the Cl	ient	-7(1)				
Ageing							
Treatments	-						
Surface state	Variegated	NO	Aged		NO	Cleaned	NO
Optical properties	Diffusive reflecting	NO	Intermedia	te reflecting	YES	Clear transmitting	NO
	Specular reflecting	NO	Translucer		NO	Opaque	YE

^{*} The laboratory declines all responsibility for the data supplied by the customer

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The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k = 2, which for a normal distribution provides a level of confidence of approximately 95%.