

MTEx Laboratories

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IP TEST REPORT				
Report reference number:	MTEx 1958/22.0486			
Date Tested:	2022/09/18			
Date Report was issued:	2022/10/05			
Standards:	SANS 60529:2013			
	"Degree of protection provided by enclosure (IP Code)."			
IP rating obtained after testing:	IP 68			
Applicant's Company Name:	Digital Matter Embedded (South Africa)			
Applicant's reference:	COD			
Device	G70 Rugged Housing			
Address:	No.7 Pinetree Business Park			
	63 Brahman Crescent			
	Westfield			
	1610			
General remarks:				
	in this Test Report relate only to the item or product tested. s to additional information appended to this document.			

- "(see appended table)" refers to a table appended to this document.

- Throughout this document, a point "." is used as the decimal separator.

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	n Systems (Pty) Ltd. ITEx Laboratories	Website: www.m Reg No: 2012/ VAT/BTW No: 4	055110/07	Tel : +27 12 030 1034 _(Offices) E- mail: <u>info@mtexlab.co.za</u>	Template Ref: MTExDOC 049 Rev 10 (2021/07/12)	Print Date: 2022-10-05 Page 1 of 3

1. DESCRIPTION OF SAMPLE

The enclosure was manufactured from PA6/GF15 Nylon Glass Compound. The enclosure had the following overall dimensions: 25mm x 65mm x 110mm (Assembled). The enclosure consisted of two main parts, held together by means of four Philips head self-tapping screws. A sealing element was fitted to one part of the enclosure on the inside of the fasteners. A gland formed part of the moulded construction.



2. TEST RESULTS AND SETUP:

SANS 60529: 2013 Ed.1.2						
CLAUSE	TEST	RESULT				
13.4	Dust test for first characteristic numerals 6 (Category 1)					
Step 1	Environmental conditions: Temp: 23.98°C, R-humidity: 45.3%, Pressure: 1022hPa					
Step 2	Dimensional evaluation: +/- 100ml internal volume					
Step 3	Testing and inspection results: Vacuum applied to sample: <2 kPa Flow observed: 0 m ³ .min ⁻¹ Time tested: 8 Hours On completion of the test, the sample was opened and inspected for dust ingress: No dust ingress was observed.					
Photo's						

SANS 60529: 2013 Ed.1.2				
CLAUSE	TEST	RESULT		
14.2.8	TEST FOR SECOND CHARACTERISTIC NUMERAL 8 CONTINUOUS IMMERSION TO AGREEMENT	SUBJECT		
Step 1	Environmental conditions measured: Temp: 24.3°C, R-humidity: 42.18%, Pressure: 1024hPa			
Step 2	Unless there is a relevant product standard, the test conditions are subject to agreement between manufacturer and user, but they shall be more severe than those prescribed in 14.2.7 and they shall take account of the condition that the enclosure will be continuously immersed in actual use. Duration of test: 60 minutes Testing depth : 1.0 meter			
Step 6	After testing inspection results: The enclosure was visually inspected after the test was completed; no ingress o observed.	f water was		

3. CONCLUSION

The samples complied to IP68 as per the requirements of IEC/SANS 60529.

4. ADDITIONAL NOTES AND RECOMMENDED "BATCH" VERIFICATION TESTING

- Solution with the secured and sealing o-ring(s) present.
- A Dust tank test for 2 hours (If Batch Tested) without vacuum applied or.
- A IPX8 test (If Batch Tested).

End of Report.