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Butyl Technology (Pty) Ltd
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4182

HQBTR3 Tape Assessment

1. SUBJECT

The HQBTR3 Tape assessment was conducted in accordance with:

SANS 60079-11 :2012 Intrinsic safety "Clause 10.3: Dielectric Strength"
SANS 60079-18 :2016 Encapsulation "Clause 8.1.1: Water absorption"

2. DESCRIPTION 2.1 GENERAL

The following Butyl tape material was subjected for testing in black and grey colours:

HQBTR3

B1TR is a preformed high performance polyisobutylene (PIB) based sealing tape available in single strand rolls. This product main application is in securing automotive/vehicle tracking units usually hidden in a vehicle for security and tracking purposes. The product is cost effective, nontoxic, forms an instant seal and requires no tools to apply and has a life expectancy in excess of 25 years when correctly used and applied.

3. SELECTION OF SPECIMEN

The test sponsor supplied samples for testing.

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4. TEST METHODS AND RESULTS

The samples were evaluated as per the various standards listed above and results are recorded below.

HQBTR3:

| Description | Results | Classification | Verdict |
|---|---|--|---|
| <p><u>Dielectric Strength:</u> <u>(SANS 60079-11 Clause 10.3)</u></p> <p>The HQBTR3 tape was assessed as below:</p> <p>The sample was conditioned at 50% RH ($\pm 5\%$) at an ambient of 23°C ($\pm 2^\circ\text{C}$) for a period of 24 hours.</p> <p>Two probes were positioned on the material surface. A Voltage was ramped up over 10 seconds to a maximum of 510Vac for 60s. Break-through current was measured to determine the material's dielectric properties.</p> | <ul style="list-style-type: none"> The current under testing was below 0.00A No current breakthrough or flashover was recorded. | <ul style="list-style-type: none"> Good electrical insulation | <ul style="list-style-type: none"> Compliant |
| <p><u>Water Absorption:</u> <u>(SANS 60079-18 Clause 8.1.1)</u></p> <p>The HQBTR3 tape was assessed as below:</p> <p>A dry sample of each material was weighed and immersed for 24hrs in water in a temperature-controlled environment.</p> <p>The samples were then removed from the water, wiped down and weighed within 1 minute after removal</p> | <ul style="list-style-type: none"> The increase in mass may not exceed 1% of previous weight. No increase in weight of any sample was recorded. | <ul style="list-style-type: none"> Excellent water dissipation. Suitable to prevent water ingress. | <ul style="list-style-type: none"> Compliant |

5. CONCLUSION

The Butyl Tape described in this report were tested in accordance with and **COMPLIED** with the select clauses.

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6. MARKING

Production units may be marked to comply with any/all of the specific clauses of the above-mentioned standards as indicated in the table above.



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TECHNICAL SPECIALIST



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TECHNICAL SPECIALIST

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