

**Kiwa Cermet Italia S.p.A.**

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20032 Cormano (MI)  
2018/07/06

**Yparex B.V.**

Urmonderbaan 22 - 6167 RD Geleen, The Netherlands

**Subject: encapsulation material**

To whom it may concern,

Herewith we would like to inform you that the Photovoltaic (PV) module glass-backsheet prototype assembled using the encapsulation material Yparex 0F0023 (POE based), has successfully passed the following tests according to the standards IEC 61215:2005 and IEC 61730-2:2012.

IEC 61215

- > 10.1 Visual inspection
- 10.2 Maximum power determination
- 10.8 Outdoor exposure test
- 10.9 Hot-spot endurance test
- 10.10 UV preconditioning test
- 10.11 Thermal cycling test (50)
- 10.11 Thermal cycling test (200)
- 10.12 Humidity freeze test
- 10.13 Damp-heat test (1000 h)
- 10.14 Robustness of termination test
- 10.15 Wet leakage current test
- 10.16 Mechanical load test
- 10.17 Hail test

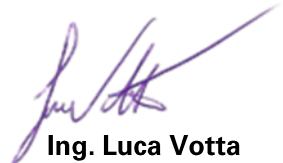


IEC 61730-2

- 10.3 Cut susceptibility test MST 12
- 10.4 Ground continuity test MST 13
- 10.5 Impulse voltage test MST 14
- 10.6 Dielectric withstand test MST16
- 10.7 Temperature test MST 21
- 10.9 Reverse current overload Test MST 26
- 10.10 Module breakage test MST 32

We hope that we have informed you at your convenience.

Your sincerely,



**Ing. Luca Votta**

Business Sector Manager Solar & Energy

