

Adhesive Solutions for Solar Reliability and Performance



Industry Challenges

- Solar panels must endure **decades of hot-cold temperature cycling, UV radiation, and moisture**
- Weak bonding causes **power loss, cracks, and costly failures**
- **OPV modules** need flexible, low-temperature cure adhesives
- **Inverters risk overheating** without thermal management
- Manufacturers required **cost-effective, long-life solutions to meet warranty demands**



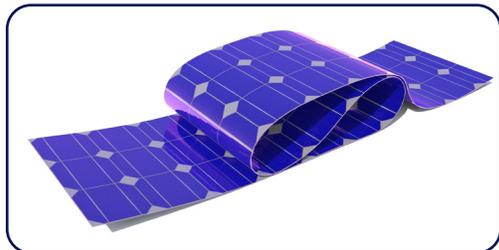
Our Solutions

- **Proven durability and high reliability** for extreme outdoor conditions
- **Tailored solutions** for OPV, thin film, traditional PV, and inverters
- **Advanced materials** supporting perovskite, flexible substrates, ribbon stringing, protection, and thermal management
- Backed by **global expertise and support**

Adhesive solutions from cell to inverter – **reliability that endures**

Advanced Adhesive Solutions for Solar and Photovoltaics

Proven adhesive performance across every stage of solar manufacturing — from cell assembly to inverter thermal management.



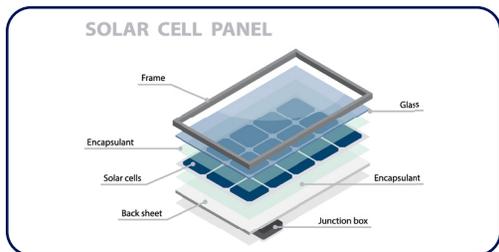
Cell Assembly: Organic Photovoltaic (OPV)

- **Flexible Electrically Conductive Adhesives (ECA):** EPO-TEK® EJ 2108, EV2118-2, 78-134-5 (R&D)
- **Z-axis Connection ECA:** EPO-TEK® H20E-FC, EJ2189-LV
- **Barrier Materials (Augmented and Environmental Seals):** EPO-TEK® OG116-31, OG142



Thin Film Panel Assembly: Solar Ribbon Stringing

- **High-strength Electrically Conductive Adhesives**
EPO-TEK® H20E, H20E-FC, H20E-SLR-HV



Solar Panel & Junction Box Protection

- **Silicone Encapsulants:** Epoxies, Etc. 20-1615, 20-1715, 50-1952
- **Polyurethane Encapsulants:** Epoxies, Etc. 20-2180, 20-2390, 50-2369FR
- **Structural Bonding:** Epoxies, Etc. 10-3046, 10-3216, 50-3112



Solar Inverter Thermal Management

- **High Thermally Conductive Adhesives**
Epoxies, Etc. 70-3812NC, EPO-TEK® T905BN-3

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