



Zalak® O-Rings and Seals



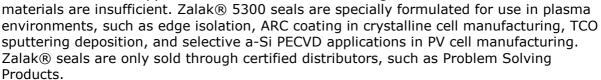
Photovoltaic Solutions To Boost Solar Cell Efficiency

Photovoltaic Energy is the science of converting light into electrical energy, and is achieved through the use of semiconductors, or photovoltaic solar cells. The cell assemblies are encapsulated into water tight modules for protection from moisture and impact. The resulting assembly is referred to as a solar panel or module. The principle components of a crystalline silicon photovoltaic module are the glass glazing, cross-linked ethylene-vinyl acetate (EVA) encapsulant, the silicon wafers and associated wiring, a protective backsheet, and a junction box.



materials.

DuPont™ Zalak® seals joined the Kalrez® perfluoroelastomer product line in 2010 as a cost-effective alternative in select applications where traditional sealing

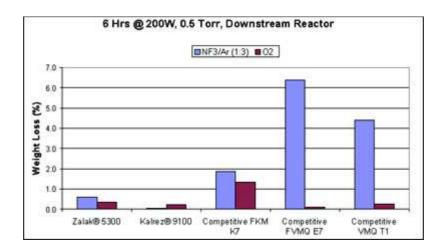


As PV manufacturers use more aggressive and efficient chemicals, such as nitrogen trifluoride (NF3), and oxygen (O2) plasma to increase uptime and improve output, more strain is placed on the manufacturing process. Materials traditionally used in PV manufacturing, like silicone, fluorosilicone, and standard fluoroelastomers can degrade quickly in harsh conditions causing unplanned maintenance due to incompatible sealing









In addition to its excellent plasma resistance, Zalak® 5300 seals offer:

- good resistance to "dry" process chemistry
- · excellent compression set properties
- low stiction (sticking)
- very low particle generation

For static and low-sealing force applications, like chamber lid seals and gas inlet seals, Zalak® 5300 seals are an excellent upgrade from standard sealing materials. Contact Problem Solving Products, Inc. for the availability of sealing shapes or sizes.

Next topic: Kalrez® o-ring, seal and part availability

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