

REPORT SUMMARY | MATERIAL TESTING

Report numbers:	V6324/2015 V6280/2014 V6579/2014 V337/2017
Customer:	aleo solar GmbH
Period of testing	2014 - 2017
Date of report summary:	2018/02/02
Authors:	Sebastian Timmel, Dr. Sylke Meyer
Objective:	Test of foil materials on snail trail sensitivity
Test method:	AgNP test (formation of silver nanoparticles)
Tested materials:	Encapsulation and backsheets foils used for the assembly of the following types of crystalline silicon terrestrial photovoltaic modules: S18YXXX; P18YXXX; S19YXXX; S79YXXX; S59YXXX; P19YXXX; S25YXXX; S75YXXX; X59YXXXZ; X19YXXXZ; X79YXXXZ; X25YXXXZ; X55YXXXZ; X75YXXXZ

"Y" in the model designation represents ". ", "U", "G", "H", "J", "K", "L", "T" and "E" denoting essential electrical properties and/or different marketing territories. XXX in the type number replaces the real output of the modules at STC, rounded off in steps of five.

Test results:

SAMPLE NAME	AgNP TEST	PROGNOSIS FOR SNAIL TRAILS
Back sheet (different types)	negative	resistant
EVA (different types)	negative	resistant
Test laminates thereof	negative	resistant

The test results were obtained from the samples provided by the customer.