

Temperature resistance of Drift eliminator elements (PVC and PP compared)

Test description

For testing the temperature resistance of the drift eliminators segments in PVC and PP (TEC / TEP) two modules of the following dimension 540x300x130mm are prepared. The modules are supported on two sides on a 5mm support. The modules are loaded with an additional weight of 1 kg in the centre. The modules are tested in a special testing oven, which allows to simulate operating temperatures and temperatures reached by exposure from direct sun light of up to 85°C. During the test the visible deformation is measured for increasing temperature levels.

1. Temperature resistance of TEC 130 (PVC)

The test starts with 40°C. After each 24 hours, the temperature is increased by 5°C. Up to 55°C, no visible deformation can be seen. After increasing the temperature to 60°C, the test had to be stopped after 15 Minutes (at 60°C), due to strong deformation of the module.



Deformation after 15 Minutes at 60°C

2. Temperature resistance of TEP 130 (PP)

The test starts with a Temperature of 80°C. After each 24 hours, the temperature is increased by 5°C. The test is continued up to a temperature of 120°C. At this temperature no visible deformation could be seen and the test was stopped due to the assumption that in praxis these temperatures will not be reached.



no deformation at 120°C after a total test length of 288 hours