EGE PROFİL TİC. VE SAN. A. Ş.

ZENDOW SYSTEM TEST RESULTS

Colour: They are produced in RAL 9016 code.

Profile width:

All the profiles in zendow system have a 70 mm width.

Reinforcement: Reinforcement wall thicknesses are 1.0mm, 1.2mm, 1.5mm and 2mm. They are galvanized.

PVC Profile wall thickness: Profile wall thicknesses are nominal 2,8mm and according to TS 5358 EN 12608 standards they are in class B.

Straightness: According to TS 5358 EN 12608 1mm in 1m profile.

Heat Behaviour: According to TS EN 478 no default on profiles shall be accepted.

Impact at low temperature: According to TS EN 477 %10 shall be accepted.

Mechanical properties of PVC profiles: According to TS 5358 EN 12608;

a. Corner Weld Strength ; min 35 N/mm^2

Zendow Frame 44 mm = 36,3 N/mm^2

Zendow Sash 60 mm = 38,6 N/mm^2

Zendow Asimetric Frame = 37 N/mm^2

Zendow Sash 50 mm = 38,8 N/mm^2

b. DIN ISO 527-1 test method @16 ^0C ; 5 mm/min speed tensile strength, yield strength, Modulus of Elasticity values are met with the requirements of TSE 5358 EN 12608.

Colour Fastness: Weathering tests were done in an accredited laboratory SKZ in Germany according to TS 5358 EN 12608 standards and it approves that profiles are in class S. Test results are attached.

Vicat Softening Point: According to TS 1825 EN ISO 306 standard it shall be Min 75°C and the result is 81°C.

Profile density: 1,46 ± 0,1 gr/cm^3.

Applications:

a. **Heat isolation=**

   U 1,4 W/m^2K.

b. **Sound isolation** = 38,4 dB'dir.(ISO 140). Test results are attached.

c. Water tightness, air tightness, wind load test results are attached.

- U-PVC profiles are in class B2 as a difficult flammable material (DIN 4102-4)

Gasket :

Because of the process and fabrication simplicities we use TPE (Thermo plastic elastomer) gaskets. Advantages:

- PVC profiles can be welded with profiles which cause a perfect isolation.
- Because of the structure of TPE has a longer life time and doesn't leave any stain on profiles.
- TPE is an environment friendly material because it is recyclable.