APSOplast® PVC-U

Angst+Pfister

Engineering plastics technology
Technical Data Sheet

Application purpose and characteristics
Apparatus engineering, electrical industry, construction industry
Very good chemical resistance, very good dielectric properties, flame retardant

Material name, short description	PVC-U
Material name, based on technical standards	Polyvinylchlorid unplasticized
Density	1.45 g/cm³
Color	dark grey
Compound code	PVC-U 00.001-10

Mechanical properties

Elongation at rupture	15 % DIN EN ISO 527
Elongation at yield	45 % DIN EN ISO 527
Flexural modulus of elasticity	3000 N/mm² DIN EN ISO 527
Ball indentation hardness	140 N/mm² DIN EN ISO 2039-1
Notch impact strength	2.00 kJ/m² DIN EN ISO 179

Thermal attributes

Max. operating temperature long term	60 °C
Max. operating temperature short term	70 °C
Coefficient of linear thermal expansion 1	80 * 10^{-6} K^{-1} DIN 53752
Heat deflection temperature 1	60 °C DIN EN ISO 75 / A
Thermal conductivity	0.2 W/(m·K) DIN 52612-1

Electrical attributes

Dielectric dissipation factor 1	0.02 IEC 60250
Dielectric constant 1	3 EC 60250
Dielectric constant 2	3
Surface resistivity	10^{13} Ω IEC 60093

In compliance with **RoHS** and **REACH** directives.
This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.