

Explanation of the material tables

The tables provide summarized non-binding guideline values. The information supplied is intended as an aid to working with the equipment and permits only an initial selection to be made. It refers to parts not subjected to load. The list of materials makes no claim to completeness, and was drawn up largely on the basis of documentation provided by the raw material manufacturers. No legally binding assurance of certain characteristics or concrete case of application may be derived from the information provided. No warranty is accepted for the workmanship of raw materials used in our products. To ascertain their suitability in concrete cases, a product test under specific application conditions and qualified advice by material engineers and designers is necessary.

The buyer/ user recognizes the special objectives of the Chemical Act with relevance for the used materials. Any liability, in particular in accordance with Arts. 823 ff of the German Civil Code is excluded.

Notes on the different levels of resistance:

1 Very good resistance: Material is unlikely to be destroyed by the chemical product in question.

2 Good resistance: Material may be expected to demonstrate good to fair serviceability. After exposure to the relevant chemical product, it may be destroyed in time.

3 Medium/ conditional resistance: Material is likely to demonstrate limited serviceability when coming into sporadic contact with the relevant chemical product. Continuous contact destroys the material.

X Not resistant: The material cannot be recommended for this application.

Free of silicone and PWIS

The usage of silicone and other paint-wetting impairment substances is being vastly in the production of our cable glands and accessories. Nevertheless we are unable to provide the assurance of absolute silicone- and PWIS-free execution as a residual risk of diffusion or contamination from the environment caused by PWIS and silicone-like products cannot be ruled out.

Weather resistance

External exposure to weather is caused by a combination of chemical effects (oxygen, water, ozone, atmospheric pollution) with simultaneous exposure to heat and UV radiation. This interaction places a considerable strain on plastics. An unsuitable choice of materials can lead to destruction of products within a short period.

Sustained application temperature

Temperature resistance over years. Within this time, the physical properties of the material alter due to heat ageing to a degree considered reasonable for technical components in accordance with experience values.

Literature sources:

Technical data sheets - guideline values for materials of different raw material manufacturers, Compendium of plastics, Franck, Vogel-Verlag, Plastic polymer materials, Krebs / Anvodet, Rubber-cautschouc-elastomers, Krebs

Remarks, modifications and warranty

Temperature range

Dynamic: In the specified temperature range, the cable gland is capable of resisting a shock with an energy value that must not exceed the equivalent value in the shock impact category classified by the manufacturer in accordance with EN 62444.

Static: In the specified temperature range, the correctly fitted cable gland with its lead installed as per specifications must not be subjected to any further forces (shock, tension, pressure, etc.). The fastening place (e.g. housing), the cable gland and the inserted lead must be in a position of rest. A fixed lead must be in a position of rest. Fixed cable routing must be complied with. The cable gland should not be regarded as a single component. Instead, the user must consider the sum of all predominant ambient conditions at the site of installation.

For articles not covered by EN 62444 the minus values of the temperature range apply in the position of rest without impact (static).

Remarks, modifications and warranty

The above information and any written or verbal application engineering-related advice are provided to the best of our knowledge. However any such advice or information is totally non-binding and without commitment, also in respect of any third-party industrial property rights.

Our advisory service does not exonerate the recipient from itself reviewing the advice provided for its suitability in respect of the intended application and purpose.

Any claim based on work conditions and different application conditions outside our sphere of influence is excluded. Should our products be applied or processed and our advice utilized in products manufactured by you, this shall be deemed to take place beyond our control and accordingly outside our sphere of responsibility. Should our liability be called into question despite this disclaimer, however, any damages shall be limited to the value of goods supplied by us and utilized by you.

Our warranty relates to a consistent standard of quality in our products in accordance with our specifications and our General Terms and Conditions of Sale, Delivery and Payment. Any warranty of product function is conditional upon correct handling and treatment of the products, in particular upon correct observance of clamping ranges, cable diameters, tightening torques and protection ratings.

The suitability of the product for the purpose and application of the user in respect of application conditions, duration of use and load capacity must be reviewed and guaranteed by the user under the practical conditions in question, and must be in compliance with currently valid electrical installation and safety regulations.

Subject to error and to technical modifications.

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