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-  Semi-finished Products
-  Injection Molded Parts
-  Custom Profiles
-  Machined Parts
-  Cast Parts

SUSTAMID 6

SUSTAMID 6G

SUSTAMID 66

SUSTAMID 12

SUSTARIN

SUSTANIAT

SUSTADUR

SUSTAGLIDE

SUSTATEC

SUSTASPEED

SUSTAVACU

 Semi-finished Products

## Product Information

SUSTAVACU



  
**SUSTAPLAST**

The long-term maximum application temperature is based on the thermal ageing of plastics by oxidation, resulting in a decrease of the mechanical properties. This applies to an exposure to temperatures for at least 5,000 hours causing a 50% loss of the tensile strength from the original value (measured under room temperature). This value does not allow for the mechanical hardness of the material under high application temperatures. In case of thick-walled parts, only the surface layer is affected by oxidation from high temperatures. With the addition of anti oxidants, a better protection of the surface layer is achieved. In any case, the center area of the material remains unaffected.

The minimum application temperature is basically influenced by possible stress factors like impact and/or shock under application. The values stated refer to a minimum degree of impact stress.

The values indicated result from numerous individual measurements for an approximation of the values and are to our today's knowledge. They serve as information about our products and are presented as a guide to choose from our range of materials. This, however, does not include an assurance of specific properties or the suitability for particular application purposes. Since the properties also depend on the dimension of the semi-finished products and the degree of crystallisation (e.g. nucleating by pigments), the actual values of the properties of a particular product may differ from the indicated values.

Under the influence of moisture absorption, the mechanical properties change. The material becomes tougher and more resistant to impact, the modulus of elasticity declines.

Depending on the environmental atmosphere, the temperature and the period of moisture absorption, only the surface layer is affected by alterations of property to a certain depth. On thick-walled parts, the center area remains unaffected.

The mechanical properties of fibre reinforced materials were determined on injection molded parts.

For the interpretation of constructions and the definition of material specifications, we will be pleased to determine the data that applies to your specific application upon request.

