PSU

Polysulfone

DESIGNATION	CHEMICAL NAME	TYPE
PSU	Polysulfone	Thermoplastic

General description

The material has good mechanical properties and withstands high temperatures (up to 180 °C).
Good hydrolysis resistance and approved for food contact.

Processing

PSU is available as semi-finished products in the form of sheets and rods.
The material is suitable for both vacuum forming and machining.

Applications

Vacuum-formed and machined parts for medical instruments and equipment, coffee machines and microwave ovens.

Special features

Withstands high temperatures.
High price range.
Food contact approval for certain types/products.

Properties

PROPERTY	STANDARD	UNIT	VALUE
Density	DIN 53479	g/cm^3	1.24
Tensile strength	DIN 53455	N/mm^2	80
Impact strength at 23 °C	DIN 53453	kJ/m^2	No break
Modulus of elasticity	DIN 53457	N/mm^2	2500
Elongation at break	DIN 53455	%	10
Service temperature, continuous	-	°C	-50/+180
Thermal expansion	ASTM D 896	mm/m/°C	0.06
Flammability	UL 94		V0

All information and guidelines are based on generally recognised technical handbooks and are given to the best of our knowledge and in good faith, without liability for any errors.

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