

NEUKADUR PN 1879

2-C Polyurethane Casting Resin, mineral-filled
Fire test according to UL 94V-0

altropol

Main features

- low casting viscosity
- good heat removal
- very low shrinkage during the curing process
- no tendency to embrittlement
- good properties with regard to corrosion protection
- excellent resistance to hydrolysis
- high adhesion to metal, ceramics and many plastic materials

Applications

- casting of electric component parts

Properties in the non-crosslinked state (approx. values)

			NEUKADUR PN 1879 Component A	NEUKADUR PN 1879 Component B
Colour			black	brown
Density 20 °C	g/cm ³		1.55	1.20
Viscosity 20°C	mPas		8000	40

* or as per agreement

Properties of the mixture (approx. values)

Mixing ratio	p.b.w.		100	43
Mixed viscosity	mPas			600
Mixed density 20 °C	g/cm ³			1.4
Pot life 20 °C	minutes			30
Shore D-hardness 7d / RT	DIN 53505			85
Tensile strength	ISO 527-2			54 N/mm ²
Elongation at tear	ISO 527-2			2 %
Dielectric strength	IEC60243-1 VDE 0303 TI.2			34 kV/mm
Dissipation factor tan δ / 25°C / 50Hz	IEC 60250 VDE 0303 TI.4			0.01
Dielectric constant ϵ / 23°C / 50HZ	IEC 60250 VDE 0303 TI.4			3.7
Thermal conductivity	ISO 22007-2:2008			0.55 W/m·K
Coefficient of expansion	< 70°C, TMA			54 ppm/K
Creep resistance	IEC 60112 VDE 0303, TI.1			CTI 600
Water absorption after 30 days of immersion in water / 23°C				0.3%
Chemical resistance to mineral oil, diluted sulphuric acid, saturated lime water solution				No visible change
Fire test	UL 94V-0			Does also exist for a 6mm thick layer

NEUKADUR PN 1879

2-C Polyurethane Casting Resin, mineral-filled
Fire test according to UL 94V-0

altropol

How to process the material

Stir up resin thoroughly. Then weigh out resin and hardener in the indicated mixing ratio and mix them for approx. 1 – 3 minutes (depending on batch size and pot life) under slow stirring. After this, proceed to casting immediately. Air bubbles that might have been included during the stirring process can be removed before the end of the pot life by evacuation or careful fanning of the surface with a hot-air hair dryer.

Form of delivery

NEUKADUR PN 1879 Comp. A	5 kg ; 25 kg
NEUKADUR PN 1879 Comp. B	2.15 kg ; 10.75 kg

Storage

The material should be kept in tightly closed original receptacles at temperatures of 15 - 25 °C. When duly stored, the materials can be used within the shelf life indicated on the labels.

Measure of precaution

Users should make use of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, to inform themselves on the safe handling and storage of products.

Altropol Kunststoff GmbH
Daimlerstraße 9 · D-23617 Stockelsdorf
Tel. +49 (0)451-499 60-0 • Fax +49 (0)451-499 60-20
E-mail: info@altropol.de

www.altropol.de

Our technical service – in words, in writing or by trials – is given according to the current state of our knowledge. It does however not relieve the customer/user from the duty to check by himself if the products supplied by us are suitable for the intended processes and purposes. Application, use and processing of the products take place beyond our control possibilities and lie therefore exclusively in the area of responsibility of the processor. Any existing property rights of third parties are to be considered. We guarantee the perfect quality of our products in accordance with our general terms and conditions of business. When handling our products, you have to observe the legal rules and the rules for the industrial hygiene. As for the rest, we refer to the corresponding safety data sheets.

State: 2011-11-18