Möller Industrietechnik GmbH
Wir leben Qualität

technical plastic: PE 500 (Polyethylen)

application

Manufacture of tanks and construction parts in chemical and apparatus engineering

properties

PE 500 has a high chemical resistance and is therefore ideal for use in contact with many acids, alkalis and solvents

storage

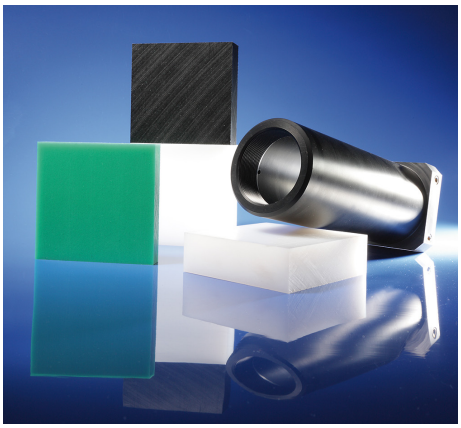
Dry in the plus range | Panels can cause flatness problems due to internal stresses.

processing

High cutting speed | low feed rate | observe good chip evacuation!

product range

We offer PE 500 as semi-finished products in various dimensions and thicknesses as sheets and solid rods.



properties	values	
quality	PE 500	
colour	natur	black
hardness (Shore D) DIN EN ISO 868 (15 s)	65	65
gravity (g/cm³) DIN EN ISO 1183	0,95	0,95
tensile modulus of elasticity (MPa) DIN EN ISO 527	1100	1100
tension at yield (MPa) DIN EN ISO 527	28	28
elongation at yield stress (%) DIN EN ISO 527	8	8
dielectric strength (kV/mm) DIN IEC 60243-1	44	44
spec. surface resistance (Ohm) DIN IEC 60093	$\geq 10^{13}$	$\geq 10^{13}$
fire behaviour DIN 4102	B2 normal flammability (self-assessment without test certificate)	B2 normal flammability (self-assessment without test certificate)
mean coefficient of linear thermal expansion (K^{-1}) ISO 11359-2	$1{,}8 \times 10^{-4}$	$1{,}8 \times 10^{-4}$
thermal conductivity (W/m * K) DIN EN 12667	0,38	0,38
temperature range (C°)	-100 ~ +80	-100 ~ +80
conformities		
	EC 10/2011 FDA 21 cfr 177.1520	EC 10/2011

RoHS konform COMPLIANT
REACH konform COMPLIANT
FDA konform COMPLIANT

Hinweis: Die technischen Kennwerte sind lediglich eine Planungshilfe. Insbesondere stellen sie keine zugesicherten Eigenschaften dar. Die Informationen im Datenblatt beruhen auf Einzelmessungen und unseren derzeitigen Kenntnissen und Ertahrungen. Produktionsbedingte Änderungen vorbehalten.
Wir weisen darauf hin, dass die individuellen Einsatzbedingungen Einfluss auf die Eigenschaften jedes einzelnen Produktes nehmen. Aus diesem Grund ist der Kunde verpflichtet, die Materialien einer Eignungsprüfung zu unterziehen. Der Einsatz unserer Materialien erfolgt ausschließlich im Verantwortungsbereich des Anwenders.

We point out that all information within this catalogue must be considered as rough guidelines. All information provided does not describe any warranted characteristics of materials. The information in this catalogue is based upon individual measurements representing our best knowledge as of the day of measurement. They are subject to technical modifications. We point out that the specific operation conditions may influence the properties of each individual product. For this reason, the customer is required to perform an aptitude test of the materials. The use of our materials is the sole responsibility of the user.

Please note that only the German version of this catalogue is binding in any case. Legal claims can only be based upon the German version. We admit no liability for this English version since it is for explanatory purposes only.

Möller-Industrietechnik GmbH | Brunnenweg 10 | 39444 Hecklingen | Telefon: +49 3925 37890-0 | Fax: +49 3925 930037 | E-Mail: moeller@moeller-it.de | Stand: 30.01.2023 | Rev:01