

## Technical Datasheet: High-performance plastic type CP

#### **General notes**

- PEEK polyetheretherketone reinforced with carbon fibre
- very hard, rigid, high tensile and flexural strength, very high wear resistance
- high heat capability (260-300°C), good dimension stability, low thermal linear expansion coefficient
- excellent resistance to chemicals and aggressive agents, excellent resistance to thermal ageing.
- ESD-safe material
- typical applications include handling of components in cleaning/chemical/assembly processes also at high temperature (soldering).

Mechanical properties Flexural modulus +23°C: Flexural strength +23°C Tensile modulus +23°C Tensile strength +23°C: Izod - Impact strength (notched) +23°C:	21400 MPa 350 MPa 24000 MPa 190 MPa 65 J/m	ISO 178 ASTM D 790 ISO 178 ASTM D 790 ISO 527 ASTM D 638 ISO 527 ASTM D 638 ISO 180/4A ASTM D 256
<b>Thermal properties</b> Temp. of defl. under load (1.80 MPa): Continuous Use Temperature Short Time Temperature	: 300 °C 260°C 300°C	ISO 75 ASTM D648 20'000 h
<b>Electrical properties</b> Surface resistivity: Decay time:	10 <sup>6</sup> -10 <sup>7</sup> Ohm < 0.2 sec	1000-10 V
<b>Other properties</b> Density Water absorption in water 23°C (24h)	1.39 g/ccm 0.01%	ISO 1183 ISO 62



## **Chemical Resistance Guide of CP**

#### Acids

CHEMICAL	23°C (73°F)	100°C (212°F)	200°C (392°F)
Acetic Acid, 10% Conc.	A	А	-
Acetic Acid, Conc.	А	А	А
Acetic Acid, Glacial	А	А	-
Acrylic Acid	А	А	-
Aqua Regia	С	С	С
Benzene Sulphonic Acid	С	-	-
Benzoic Acid	А	А	-
Boric Acid	А	А	-
Carbolic Acid	А	-	-
Carbonic Acid	А	А	-
Chloracetic Acid	А	А	-
Chlorosulfonic Acid	С	С	С
Chromic Acid, 40% Conc.	А	-	-
Chromic Acid, Conc.	С	С	С
Citric Acid	А	А	-
Formic Acid	В	В	-
Hydrobromic Acid (100%)	С	С	С
Hydrochloric Acid, 10% Conc.	А	А	-
Hydrochloric Acid, Conc.	А	В	-
Hydrocyanic Acid	А	А	-
Hydrofluoric Acid (40%)	С	С	-
Hydrofluoric Acid (70%)	С	С	-
Lactic Acid	А	А	-
Maleic Acid	А	А	-
Nitric Acid, 10% Conc.	А	А	-
Nitric Acid, 30% Conc.	В	-	-
Nitric Acid, 50% Conc.	С	С	С
Nitric Acid, Conc.	С	С	С
Nitrous Acid, 10%	А	-	-
Oleic Acid	А	-	-
Oleum	С	С	С
Oxalic Acid	А	А	-
Perchloric Acid	А	А	-
Phosphoric Acid, 10% Conc.	A	А	А
Phosphoric Acid, 50% Conc.	А	А	А
Phosphoric Acid, 80% Conc.	A	А	-
Phthalic Acid	А	А	-
Picric Acid	А	А	-
Silicic Acid	А	А	-
Sulphuric Acid, <40% Conc.	В	В	В
Sulphuric Acid, >40% Conc.	С	С	С
Sulphurous Acid	А	А	-
Tannic Acid, 10% Conc.	А	А	-
Tartaric Acid	А	А	-



#### **Bases**

CHEMICAL	23°C (73°F)	100°C (212°F)	200°C (392°F)
Ammonia, 880	А	-	-
Ammonia, Anhydrous	А	А	А
Ammonia, Aqueous	A	А	А
Ammonium Hydroxide, 10% Conc.	А	-	-
Ammonium Hydroxide, Conc.	А	-	-
Calcium Hydroxide	A	-	-
Hydrazine	А	А	-
Magnesium Hydroxide	А	-	-
Potassium Hydroxide, 10% Conc.	А	-	-
Potassium Hydroxide, 70% Conc.	А	-	-
Sodium Hydroxide, 10% Conc.	А	А	А
Sodium Hydroxide, 50% Conc.	А	А	А
Sodium Hydroxide, Conc.			

## **Inorganic Reagents**

CHEMICAL	23°C (73°F)	100°C (212°F)	200°C (392°F)
Aluminum Chloride	А	А	-
Aluminum Sulphate	A	А	-
Alum, Saturated	А	А	-
Ammonium Chloride (10% Conc.)	A	А	-
Ammonium Nitrate	А	А	-
Antimony Trichloride	A	А	-
Barium Salts (Chloride, Sulfide)	А	-	-
Bleach	А	А	-
Brine	А	А	-
Bromine	С	С	С
Bromine (Dry)	С	С	С
Bromine (Wet)	С	С	С
Bromine Water, Saturated	А	А	-
Calcium Bisulphide	А	А	-
Calcium Carbonate	А	-	-
Calcium Chloride	А	А	-
Calcium Hypochlorite	А	А	-
Calcium Nitrate	А	-	-
Calcium Sulphate	А	А	-
Carbon Dioxide (Dry)	А	-	-
Carbon Monoxide (Gas)	А	А	А
Chlorine (Gas-Dry)	А	А	С
Chlorine (Gas-Wet)	С	С	-
Chlorine (Liquid)	С	С	С
Chlorine (Wet)	С	С	С
Copper Acetate	А	А	-
Copper Carbonate	А	А	-
Copper Chloride	А	А	-
Copper Cyanide	А	А	-
Copper Fluoride	А	А	-
Copper Nitrate	А	А	-
Copper Sulphate	А	А	-



Cupric FluorideAA-Cupric SulphateAA-Cuprous ChlorideAA-Ethylene NitrateAFerric ChlorideBB-Ferric NitrateAFerric SulphateAFerric SulphateAFerrous ChlorideAFerrous SulphateAFerrous SulphateAFerrous SulphateAFuorineCCCHydrogen PeroxideAHydrogen Sulphide (Gas)AA-IodineBLead AcetateAA-Magnesium ChlorideAA-Mercurous ChlorideAA-Mercurous ChlorideAA-Nickel ChlorideAA-Nickel SaltsAA-Nickel SulphateAA-	-
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Nickel Salts A	
	-
NICKEI SUIPNATE A -	-
	-
Nitrogen A	-
Nitrous Oxide A	-
Oxygen A	-
Ozone A B -	-
Phosphorous Chlorides A A -	-
Phosphorous Pentoxide A A -	-
Potassium Aluminium Sulphate A A -	-
Potassium Bicarbonate A	-
Potassium Bromide A A -	-
Potassium Carbonate A	-
Potassium Chlorate A A -	-
Potassium Chloride A A -	-
Potassium Dichromate A	-
Potassium Ferricyanide A	-
Potassium Ferrocyanide A	-
Potassium Hydroxide A A -	-
Potassium Nitrate A A -	-
Potassium Permanganate A	-
Potassium Sulphate A A -	
Potassium Sulphide A	
	-
Silicone Fluids A A -	-
Silver Nitrate A A -	-
Sodium Acetate A	-
Sodium Bicarbonate A	-
Sodium Carbonate A A -	-
Sodium Chlorate A A -	-



Sodium Chloride	А	А	-
Sodium Hypochlorite	А	А	-
Sodium Nitrate	А	А	-
Sodium Nitrite	А	-	-
Sodium Peroxide	А	А	-
Sodium Salts	А	-	-
Sodium Silicate	А	А	-
Sodium Sulphate	А	А	-
Sodium Sulphide	А	А	-
Sodium Sulphite	А	А	-
Sodium (Hot)	С	С	С
Stannic Chloride	А	А	-
Stannous Chloride	А	А	-
Steam	А	А	А
Sulphur	А	А	-
Sulphur Chloride	А	А	-
Sulphur Dichloride	А	А	-
Sulphur Dioxide	А	А	А
Sulphur Hexafluoride (Gas)	Α	-	-
Sulphur Trioxide	А	А	-
Tar	А	-	-
Tetraethyl Lead	А	-	-
Water, Distilled	А	А	-
Water	А	А	А
Water, Sea/Salt	А	А	-
Zinc Chloride	А	А	-
Zinc Sulphate	А	А	-

#### **Alcohols**

CHEMICAL	23°C (73°F)	100°C (212°F)	200°C (392°F)
Benzyl Alcohol	А	-	-
Butanol	А	-	-
Cyclohexanol	А	-	-
Ethanol	A	A	-
Ethylene Glycol	A	A	В
Ethylene Glycol, 50% Conc.	А	A	А
Glycerol	А	-	-
Glycols	А	A	-
Isopropanol	А	-	-
Methanol	А	А	-
Propanol	А	-	-



## **Aldehydes and Ketones**

CHEMICAL	23°C (73°F)	100°C (212°F)	200°C (392°F)
Acetaldehyde	А	А	-
Acetone	А	А	-
Benzaldehyde	А	-	-
Cyclohexanone	А	-	-
Formaldehyde	А	А	-
Formalin	А	-	-
Methylethyl Ketone (MEK)	А	В	С
N-Methyl-2-Pyrrolidone (NMP)	А	-	-

#### **Esters**

CHEMICAL	23°C (73°F)	100°C (212°F)	200°C (392°F)
Aliphatic Esters	А	А	-
Amyl Acetate	А	А	-
Butyl Acetate	А	-	-
Dibutyl Phthalate	А	-	-
Dimethyl Phthalate	А	-	-
Dioctyl Phthalate	А	-	-
Ethyl Acetate	А	-	-
Oils (Di-Ester and Phosphate Ester Based)	А	А	-

#### **Ethers**

CHEMICAL	23°C (73°F)	100°C (212°F)	200°C (392°F)
Diethylether	А	А	-
Dioxane	А	-	-
Ethylene Oxide (Et0)	А	-	-
Tetrahydrofuran (THF)	A	-	-

### **Organo-Nitrogen Compounds**

CHEMICAL	23°C (73°F)	100°C (212°F)	200°C (392°F)
Acetonitrile	А	-	-
Aniline	А	В	-
Dimethyl Formamide (DMF)	А	-	-
Diethylamine	А	-	-
Nitrobenzene	А	-	-
Pyridine	А	А	-

## **Halogenated Organics**

CHEMICAL	23°C (73°F)	100°C (212°F)	200°C (392°F)
1,2 Dichloroethane	A	-	-
Carbon Tetrachloride	A	A	
Chlorobenzene	А	А	-
Chloroform	А	А	-
Dibromoethane	А	-	-



Dichlorobenzene	А	-	-
Freon* 113 (Arklone®) Trichlorotrifluoroethane	А	-	-
Freon 114, 1, 1 Dichloro 1,2,2,2 Tetrafluoroethane	А	-	-
Freon 12, Dichloridifluoromethane	А	-	-
Freon 22, Chlorodifluoromethane	А	А	-
Freon 134a	А	-	-
Freon 502	А	A	-
Genklene®* (1,1,1 Trichloroethane)	А	-	-
Methylene Chloride	А	-	-
Perchloroethylene	А	А	-
Trichloroethylene	А	A	-

## **Hydrocarbons**

CHEMICAL	23°C (73°F)	100°C (212°F)	200°C (392°F)
Acetylene	A	А	-
Aromatic Solvents	А	А	-
Aviation Hydraulic Fluid	А	-	-
Benzene	А	А	-
Brake Fluid (Mineral)	А	А	А
Brake Fluid (Polyglycol)	А	А	А
Butane	А	-	-
Crude Oil	А	-	-
Cyclohexane	A	А	
Diesel Oil	А		
Dowtherm* G	В		
Dowtherm* HT	В	-	-
Dowtherm* LF	В	-	-
Ethane	А		
Fuel Oil	А		
Gas (Manufactured)	А	-	
Gas (Natural)	A	-	
Gasoline	А	-	
Heptane	A	-	
Hexane	A		
Hydraulic Fluid	А		
Iso-Octane	А	-	-
Kerosene	А	-	-
Lubricating Oil	А	-	-
Methane (Gas)	A	А	А
Motor Oil	А	А	А
Naphtha	A	А	-
Naphthalene	А	А	-
Oils (Petroleum)	А	А	-
Oils (Vegetable)	А	А	-
Pentane	А	-	-
Petroleum Ether	А	А	-
Propane	А	-	-
Skydrol* Hydraulic Fluid	А	-	-
Styrene (Liquid)	А	-	-
Toluene	А	-	-
Transformer Oil	А	А	-
Vaseline*	А	-	



Xylene

## Miscellaneous Reagents

CHEMICAL	23°C (73°F)	100°C (212°F)	200°C (392°F)
Adhesives (not cyanoacrylates)	А	-	-
Apple Juice	А	-	-
Aviation Spirit	А	-	-
Beer	А	А	-
Cooking Oil	А	-	-
Creosote	А	-	-
Detergent Solutions (non-phenolic)	А	А	-
Edible Fats and Oils	А	-	-
Fatty Acids	А	А	-
Fruit Juice	А	А	-
Gelatin	А	А	-
Ketchup	А	-	-
Linseed Oil	А	-	-
Milk	А	А	-
Mineral Oil	А	-	-
Molasses	А	А	-
Olive Oil	А	А	-
Peanut Oil	А	А	-
Paraffin	А	А	-
Sewage	А	А	-
Soap Solution	А	-	-
Starch	А	А	-
Tallow	А	А	-
Turpentine	А	-	-
Urea	А	А	-
Varnish	А	-	-
Vinegar	А	А	-
Wax	А	-	-
White Spirit	А	-	-
Wines and Spirits	А	-	-
Yeast	A	А	-

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