



Why (ZY)PEEK?



High temperature resistance

The melting point of PEEK is 343 °C, the glass transition temperature is 143 °C, the heat deflection temperature goes up to 336 °C and the long-term use temperature is 260 °C.



Excellent mechanical properties

PEEK resin has high mechanical strength and is a material that combines toughness and stiffness.



Self-lubricating and wear resistance

PEEK resin itself has excellent self-lubricating and wear resistance. The wear resistance of the filled resin is even better, and it is an excellent bearing material.



Flammability & low smoke emission

Without the addition of any other flame retardant compositions, PEEK resin has good flammability. The 1.5 mm thick specimen can reach the UL94 V-0 standard, and the smoke emission is lower than that of other varieties of resins.



Electrical properties and insulation properties

It still has excellent insulation properties and stable electrical properties in environment with high temperature, high pressure, high speed, high humidity, etc.



Corrosion resistance

PEEK resin is a kind of material that exhibits highly resistant to corrosive chemicals except high levels of strong oxidising acids such as concentrated sulfuric acid, and similar to PTFE resin on chemical resistance.

Product catalogue FD-PEEK

		Grades	Flow	Process methods
UPF/PF series	Pure resin ultrafine powder	330UPF	High	Coating, additives
	Pure resin fine powder	330PF	High	3D Printing, additives
		550PF	Medium	Compression moulding
		770PF	Standard	
P series	Pure resin powder	330P	High	Compounding, raw materials for grinding fine powder
		550P	Medium	
		770P	Standard	
G series	Pure resin granules	330G(H)	High	Injection moulding for complex thin-wall parts
		550G	Medium	Injection moulding, extrusion
		551G	Medium	Ultra-pure, ultra-filtered, for medical applications
		551LG	Medium	Ultra-pure, ultra-filtered, for superior wire & cables and other special applications
		770G(H)	Standard	Injection moulding, extrusion
GL series	Glass fibre reinforced	330GL(10-35)(H)	High	Injection moulding, extrusion
		550GL(10-35) (H)	Medium	
		770GL(10-35) (H)	Standard	



Product catalogue FD-PEEK

Product catalogue FD-PEEK		Grades	Flow	Process methods
CA series	Carbon fibre reinforced	330CA(10-35)	High	Injection moulding, extrusion
		550CA(10-35)	Medium	
		770CA(10-35)	Standard	
FC series	PTFE + carbon fibre + graphite reinforced	330FC30	High	Injection moulding, extrusion
		550FC30	Medium	
		770FC30	Standard	
Application product series	Ceramic modified	330CM(10-30)	High	Injection moulding, extrusion
		550CM(10-30)	Medium	
		770CM(10-30)	Standard	
	E-cigarette grade	550EC F01	Medium	Injection moulding, extrusion
		330EC F01	High	
		330G-U	High	
		330G-T	High	
		550G-U	Medium	
		550G-T	Medium	
	PEEK coloured	YF	Standard/Medium/ High	Injection moulding, extrusion
	Specialised PEEK products for wafer carrier	310WA251	Medium	Injection moulding, extrusion
		310WA252	Medium	
		310WA253	Medium	
		310WA254	Medium	
	Anti-static grade	ESD E01	Standard	Extrusion
		ESD E02	Standard	Compression moulding
ESD P01		Standard		
ESD P02		Standard		
Implantable grade PEEK	PEEK-LISCIE X ZR3G	High	Injection moulding, extrusion	
	PEEK-LISCIE X ZR7G	Standard		
	PEEK-LISCIE X ZR7	-	Machining	
	PEEK-LISCIE X ZR7	-		

Disclaimer: Any details and recommendations as well as any data or information provided by K.D. Feddersen GmbH & Co. KG and its affiliated companies (hereinafter collectively "K.D. Feddersen") regarding individual products are based on investigations and statements by and information from the respective manufacturer. Unless contractually agreed otherwise, the information about the products distributed by K.D. Feddersen is non-binding. In particular, it does not constitute any guaranteed quality features. Unless agreed otherwise, K.D. Feddersen assumes no liability for the products being suitable for a certain application, utilisation, processing or any other use intended by the customer. In fact, the customer has to investigate itself whether and to which extent a product is suitable for the use intended by it and has to carry out all necessary investigations on its own responsibility. The customer is responsible itself for the utilisation, application and processing of the products. The products distributed by K.D. Feddersen may only be used for applications which are in compliance with all necessary approvals, applicable law and regulations, the instructions and specifications of the manufacturer of the products, particularly technical data sheets and product safety data sheets, as well as the rights of third parties. This information is for internal use only. Publication or transfer to third parties is prohibited without the consent of K.D. Feddersen is not permitted.