

# PLUSXTECH™ PEEK Film

PEEK Semi crystalline thermoplastic polymer film

PEEK film has extremely high temperature resistance and excellent mechanical properties, electrical properties and chemical resistance. It is a high-performance semi crystalline thermoplastic polymer film suitable for various applications of aerospace, automotive, chemical, and medical industry.

## PEEK Film Characteristics

- Continuous service temperature range from -56.67°C to 260°C
- UL RTI rated temperature is up to 240°C
- Melt point is 340°C
- Waterproof
- Excellent bending and tensile strength
- Chemically inert to most chemicals and solvents
- Good wear resistance and water erosion resistance
- Free of plasticizers, processing aids or additives
- Effective as a metal substitute in harsh environments
- Excellent electrical performance over a wide range of frequencies and temperatures
- Available in food and medicine: FDA Approval / FDA 21 CFR 177.2415

## PEEK Film Specifications

- Thickness range from 12μm to 500μm
- Width up to 1600mm
- Any slitting length available upon request



## PEEK Film Applications

- Aircraft interior
- Medical industry
- Heat-sealing/Welding
- Hot melt adhesive
- Electronic/electrical
- Food industry
- Automobile gasket
- Protection & Decoration
- Chemical processes
- Chemical equipment
- Helicopter rotor blades
- Disk polishing carrier

## PEEK Film Customized Service

- PEEK film or tape die-cut parts
- Surface composite of PEEK and fluoropolymer film
- PSA adhesive laminate

## PEEK Film Advantages

- PEEK film has both rigidity and toughness, so that it has a wide range of applications in electronic equipment, semiconductor manufacturing and general mechanical parts and other fields.
- It can maintain excellent performance at extreme high temperatures, while resisting almost all chemical agents, showing excellent durability.
- Its Young's modulus and tensile strength are extremely high, and its excellent fatigue resistance is comparable to that of alloy materials.

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			PEEK Film
<b>Mechanical Properties</b>			
Tensile Strength MD	Mpa	ASTM D882	60.49
Tensile Strength TD	Mpa	ASTM D882	45.66
Elongation At Break MD	%	ASTM D882	300.47
Elongation At Break TD	%	ASTM D882	413.53
<b>Thermal Properties</b>			
Thermal Contraction MD	%	ASTM D2732	0.25
Thermal Contraction TD	%	ASTM D2732	0.53
<b>Product Size</b>			
Width	mm		380
Thickness	μm	ASTM D6988	45~48
Color			Yellow,Black

Represent typical performance properties and should not be used for specification purposes.

Please contact PLUSXTECH sales representatives for appropriate values.