

No.	Product Name	Main Grade	Competitor	Color	Product Features	Key Advantages
1	Virgin PI	A-PI-380	SP-1	Brownish Red	Relatively lower toughness, resistant to plasma environment, Tg: 380°C	Excellent heat resistance / High electrical insulation / High mechanical strength / Good machinability
2		A-PI-350-A		Brownish Red	Best overall performance, but not recommended for high-temperature plasma environments above 220°C	
3		A-PI-330		Brownish Red	Good toughness, resistant to plasma environment, Tg: 330°C	
4		A-PI-280	PAI4203	Yellow	Mainly used as a replacement for PAI 4203. Compared with PAI, it has better temperature resistance, lower water absorption, and higher tensile strength. Cost-effective compared with PAI 4203.	Compared with imported PAI 4203, A-PI-280 offers higher temperature resistance and lower water absorption.
5		A-PI-6010	P84-NT2	Dark Burgundy	Excellent wear resistance, Rockwell hardness HRE is around 85, while standard virgin PI is only around 45-50.	Suitable for applications requiring temperature resistance, wear resistance, and zero particle shedding.
		A-PI-450	P84UHT	Yellowish Red		
6		A-PI-5001	SCP-5000	Yellow	High hardness and high modulus, excellent toughness, superior wear resistance, and a continuous service temperature of around 350°C.	High hardness and high modulus, combined with good toughness.
		A-PI-480	CEPLA SA201	Yellow	Ultra-high temperature resistance, continuous service temperature of 400°C and above	
		A-PI-480H	CEPLA SA101	Yellowish Red	Ultra-high temperature resistance, continuous service temperature of 400°C and above	Better toughness compared with A-PI-480
		A-PI-480W	SCM8000	Yellowish Brown	Ultra-high temperature resistance, continuous service temperature of 400°C and above	Ultra-high temperature resistance and low coefficient of thermal expansion
		A-PI-7500	SCM7000/U-60	Black	High-performance engineering polymer with fully aromatic heterocyclic structure. The main chain contains repeating benzimidazole rings. It is one of the engineering plastics with the highest thermal stability and temperature resistance, exceeding 450°C.	Ultra-high temperature resistance
8	Wear-resistant Modified PI	A-PI-350-21	SP-21	Dark Green (Sheet color may appear darker)	Contains 15% graphite; improved toughness	Good heat resistance, excellent friction performance and machinability
9		A-PI-380-21		Dark Green (Sheet color may appear darker)	Contains 15% graphite; higher temperature resistance	
10		A-PI-5050	SP-22/SCP-5050	Black	Contains 50% graphite; lower toughness, mainly used for high-temperature and wear-resistant applications.	
11		A-PI-6010-GF30	PAI5030	Brown	Contains 30% glass fiber, higher modulus, mainly used as a replacement for PAI 5030.	Compared with imported PAI 5030, A-PI-6010-GF30 provides larger sheet sizes, higher material utilization, and flexible thickness options.
12	PTFE and Graphite Modified Polyimide Resin	A-PI-211	SP-211	Black	Contains 15% graphite and 10% PTFE; lower friction coefficient.	High temperature resistance / Good mechanical properties / Excellent wear and abrasion resistance
13	Anti-static PI	A-PI-ESD	SP-202 (4-9)	Black	Electrical resistance: 10 ⁴ ~10 ⁶ Ω	Electrical resistance range can be customized; good machinability
14	Conductive PI	A-PI-D		Black	Electrical resistance: 10 ³ ~10 ⁵ Ω	
15	Anti-static PBI	A-PI-7500-F	U-60ESD/SCM7400	Black	Electrical resistance: 10 ⁴ ~10 ⁶ Ω	
16	Ceramic Modified PI	A-PI-280-Y50	可切削陶瓷	Yellow		Low coefficient of thermal expansion
17		A-PI-5001-Y70		White		Low coefficient of thermal expansion and higher temperature resistance