THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

ProDome® PK

Reinforced PEEK thermoplastic used for structural components in extreme environments.

- ***Maintains structural integrity at extremely high and low temperatures***
- ***3D printable, injection moldable, and machineable***
- ***Can be machined, injection-molded, and 3D printed***

ProDome® PK is a practical material solution for cryogenic and extremely high temperatures without losing strength properties due to thermal cycling. Recognized as a versatile solution in space and aerospace applications, ProDome® PK utilizes the mechanical strength, anti-radiation properties, and thermal resistance of PEEK as a base polymer but implements a mineral-based fiber reinforcement to improve the longevity of material performance. What makes ProDome® PK more unique is its ability to be processed in several ways, including 3D printing for rapid prototyping and high volume manufacture.

For more information, Visit www.thegundcompany.com/prodome

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Item:	**ProDome® PK**	
Description:	ProDome® PK is a fiber-reinforced PEEK blend with additives for increased UV resistance. It offers increased mechanical properties and creep resistance in high temperature and cryogenic environments. ProDome® PK is specifically formulated for space and other applications in especially harsh environments requiring high strength capabilities.	
Availability:	PK Series	PK130 can be injection molded, compression molded, 3D printed and machined to shape. Standard forms: Sheet, rods, and tubes. Used for prototyping, medium, and high volume production.

Key Characteristics	Test Method	Units	PK130
Standard Color			Tan
Specific Gravity	D792		1.55
Notched Izod Impact	D256	(ft-lbs/in)	6.22
Tensile Strength @ Break	D638	psi	28000
Tensile Elongation @ Break	D638	%	2.8
Tensile Modulus	D638	ksi	1745
Flexural Strength	D790	psi	39900
Flexural Modulus	D790	ksi	1672
Dielectric Constant @10Ghz	D150		2.645
Loss Tangent @ 10Ghz	D150		0.004
Water Absorption		%	0.3
Flame Rating	UL94		V0