

# Property Table

## <VICTREX PEEK carbon fiber 30% reinforced> SUMIPROY® CK4600

※SUMIPROY is registered trademark of Sumitomo Chemical Company,Limited.

Properties	Test method ASTM	Unit	SUMIPROY® CK4600
● Physical properties			
Specific Gravity	ASTM D792	-	1.44
Water Absorption 23°C 24hr	ASTM D570	%	0.06
● Mechanical properties			
Tensile Strength (23°C)	ASTM D638	MPa	216
Tensile Elogation (23°C)	ASTM D638	%	4
Flexural Strength (23°C)	ASTM D790	MPa	333
Flexural Modulus (23°C)	ASTM D790	MPa	18,200
Compressive Strength (23°C)	ASTM D695	MPa	260
Elastic Modulus	ASTM D695	GPa	5.2
Izod Impact Strength (notched 6.4t)	ASTM D256	J/m	98
(unnotched 6.4t)	ASTM D256	J/m	667
Rockwell Hardness (R scale)	ASTM D785	-	124
(M scale)	ASTM D785	-	107
● Thermal properties			
Load-deflection temperature (1.82MPa)	ASTM D648	°C	>280
Coefficient of thermal ezpansion MD	ASTM D696		1.0
TD	ASTM D696	×10 <sup>-5</sup> °C	5.5
Flammability Rating	UL94		V-0
Mold Shrinkage MD	Sumitomo Chemical Method	%	0.13
TD		%	0.55

The above values are for reference only and are not guaranteed.

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