

HIPERSITE W5 000 is Polyetheretherketone plastics which is compounded with Carbon Nano-Tube and has excellent performance about ESD and Cleanliness (Chemical/Physical) characteristics.

ITEM	Measurement Method	Unit	W5000
<u>Mechanical Properties</u>			
Specific Gravity	ASTM D-792	-	1.32
Tensile Strength	ASTM D-638	MPa	110
Flexural Modulus	ASTM D-790	MPa	4200
Flexural Strength	ASTM D-790	MPa	180
Izod Impact Strength(1/8" notched)	ASTM D-256	J/m	60
Rockwell Hardness	ASTM D-785	R	123
<u>Thermal Properties</u>			
Temperature of deflection under load-0.45MPa			>200
Temperature of deflection under load-1.82MPa	ASTM D-648	°C	152
Coefficient of Linear thermal expansion	ASTM D-696	10 ⁻⁵ /K	4.6
<u>Cleanliness Properties</u>			
Outgassing	HS/GC 85°C 16hrs	µg/g	<0.2
LPC	36KHz 120W 60s(1.0~2.0µm)	count/sq	<50
Ion Contamination			
F			<0.005
Cl			<0.005
Br			<0.005
NO3			<0.005
PO4			<0.005
SO4	DI water 60°C 1hr	µg/g	<0.01
NH4			<0.005
Na			<0.005
K			<0.005
Ca			<0.005
<u>Injection Proces Characteristic</u>			
Mold Shrinkage	-	%	0.6~1.2
Sylinder Temperature	-	°C	380~500
Mold Temperature	-	°C	170~200(Max250)
Drying Temperature	-	°C	150
Drying Time	-	hrs	3

Note: This listed properties are portrayed as general information only and are not product specifications. These numerical values might change for the reasons for the properties improvement etc.