



## Product Information

## NYLOY<sup>®</sup> KF-0030N 503 B1

- Nylon 6
- Insulated Thermal Conductive  
Halogen-free Flame Retardant
- Black

PROPERTIES	METHOD	UNIT	RESULT
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	kg/cm <sup>2</sup> (MPa)	820 (80.4)
Elongation	ASTM D638	%	2.5
Flexural Strength	ASTM D790	kg/cm <sup>2</sup> (MPa)	1500 (147.0)
Flexural Modulus	ASTM D790	kg/cm <sup>2</sup> (MPa)	78000 (7647.0)
IZOD Impact, Notched 23° C	ASTM D256	kg-cm/cm (J/M)	8.0 (78.4)
IZOD Impact, Notched -20°C	ASTM D256	kg-cm/cm (J/M)	-
Hardness Rockwell R Scale	ASTM D785	-	-
<b>THERMAL</b>			
Heat Deflection Temp	ASTM D648		
0.45MPa		°C	215
Thermal Conductivity	ISO 22007-2	W/k*m	0.6
<b>OTHER</b>			
Density	ASTM D792	g/cm <sup>3</sup>	1.430
Mold Shrinkage	ASTM D955		
Normal, 2.0mm		%	0.6±0.1
Parallel, 2.0mm		%	0.2±0.1
Flammability	UL-94	0.4mm	V0
		1.0mm	5VA
<b>REMARK</b>			
This data-sheet is for reference only .			

## Moulding guide

Drying Temp.	°C	110~120
Drying Time	hr	4~6
Mold Temp.	°C	80
1 <sup>st</sup> inj.		
V(%) / P(%)	%	70/65
2 <sup>nd</sup> inj.		
V(%) / P(%)	%	60/55
3 <sup>rd</sup> inj.		
V(%) / P(%)	%	30/25
4 <sup>th</sup> inj.		
V(%) / P(%)	%	20/15
Nozzle Temp.	°C	270~290
1 <sup>st</sup> Barrel Temp.	°C	260~280
2 <sup>nd</sup> Barrel Temp.	°C	250~270
3 <sup>rd</sup> Barrel Temp.	°C	240~260
Cooling Time	Sec.	20

### REMARK

※The condition listed on the above table is for the process control recommendation only . The data is derived from the CHEN HSONG SM-180 injection machine .The adjustments are required if other injection machine is used for making the other product.