



## Product Information

## NYLOY® KF-0030N 506 B1

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

PROPERTIES	METHOD	UNIT	RESULT
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	kg/cm <sup>2</sup> (MPa)	280 (27.4)
Elongation	ASTM D638	%	2.8
Flexural Strength	ASTM D790	kg/cm <sup>2</sup> (MPa)	570 (55.9)
Flexural Modulus	ASTM D790	kg/cm <sup>2</sup> (MPa)	47000 (4607.8)
IZOD Impact, Notched 23° C	ASTM D256	kg-cm/cm (J/M)	2.8 (27.4)
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		
1.82MPa		°C	185
Thermal Conductivity	ISO 22007-2	W/k*m	1.0
<b>OTHER</b>			
Density	ASTM D792	g/cm <sup>3</sup>	1.620
Mold Shrinkage	ASTM D955		0.4~0.7
Normal, 2.0mm		%	
Parallel, 2.0mm		%	
Flammability	UL-94	1.6mm	V0
		1.6mm	5VA
<b>REMARK</b>			
(1) 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	270~285
1 <sup>st</sup> Barrel Temp.	°C	260~275
2 <sup>nd</sup> Barrel Temp.	°C	250~260
3 <sup>rd</sup> Barrel Temp.	°C	240~250
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.