



# 耐特 NYTEX COMPOSITES CO., LTD. 科技材料股份有限公司

## PROPERTY SPECIFICATION

### NYLOY® KF-0030N 701 Q3

Insulated Thermal Conductive Halogen-free Flame Retardant Nylon6 Orange

#### MECHANICAL PROPERTIES

PROPERTIES	TEST METHOD	UNIT	RESULT
Tensile stress at yield (5mm/min)	ASTM D638	Kg/cm <sup>2</sup> (Mpa)	920 (90.2)
Tensile strain at break	ASTM D638	%	2.0
Izod notched impact strength (23 °C)	ASTM D256	Kg-cm/cm (J/M)	6.0 (58.8)
Flexural modulus (10mm/min)	ASTM D790	Kg/cm <sup>2</sup> (Mpa)	83000 (8137.2)
Flexural strength	ASTM D790	Kg/cm <sup>2</sup> (Mpa)	1600 (156.9)

#### THERMAL PROPERTIES

PROPERTIES	TEST METHOD	UNIT	RESULT
Temperature of deflection under load (0.46MPa)	ASTM D648	°C	215
Conductivity through plane	ISO 22007-2	W/m*k	0.6
Burning behavior UL 94			
1.0 mm	UL 94	Class	5VA
0.8 mm	UL 94	Class	V0

#### RHEOLOGICAL PROPERTIES

PROPERTIES	TEST METHOD	UNIT	RESULT
Molding shrinkage, parallel	ASTM D955	%	0.25±0.1
Molding shrinkage, transverse	ASTM D955	%	0.65±0.2

#### ELECTRICAL PROPERTIES

PROPERTIES	TEST METHOD	UNIT	RESULT
Surface resistivity	ASTM D257	Ohm-P-SQ	>1E+12



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### OTHER PROPERTIES

PROPERTIES	TEST METHOD	UNIT	RESULT
Density	ASTM D792	g/cm <sup>3</sup>	1.45

### PROCESSING RECOMMENDATION

Drying Temp.	°C	100~110
Drying Time	hr	4~6
Mold Temp.	°C	80~100
1st inj.		
V(%) / P(%)	%	60/55
2nd inj.		
V(%) / P(%)	%	50/45
3rd inj.		
V(%) / P(%)	%	30/25
4th inj.		
V(%) / P(%)	%	20/15
Nozzle Temp.	°C	260~280
1st Barrel Temp.	°C	250~270
2nd Barrel Temp.	°C	240~260
3rd Barrel Temp.	°C	230~250
Cooling Time	Sec.	20

### REMARK

The information provided in this data sheet is typical test values as reference which corresponds to NYTEX injection moulding machine, mould and processing condition. The test values do vary with different injection moulding machine, mould and processing condition.



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審核：錢靜

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