

**KCA9451NH**

KCA9451NH is halogen free flame retardant PC/PET resin.KCA9451NH has excellent processing properties and high tenacity.KCA9451NH is mainly used in housing of OA & TV set, panel of stereo equipment,etc.

Properties	Standard	Unit	Condition	Typical Value
<b>Physical</b>				
Density	ASTM D792	g/cm3		1.2
Melt Index	ASTM D1238	g/10min	220℃×10kg	32
			265℃×2.16kg	32
Mold Shrinkage	ASTM D955	%		0.6~0.8
<b>Mechanical</b>				
Tensile Strength	ASTM D638	MPa		58
Tensile Elongation at Break	ASTM D638	%		50
Flexural Strength	ASTM D790	MPa		85
Flexural Modulus	ASTM D790	MPa		2350
Notched Izod Impact,3.2mm	ASTM D256	J/m	3.2mm,Notched	500
<b>Thermal</b>				
Heat Deflection Temp. 1.82MPa Unannealed	ASTM D648	℃	1.82MPa	78
VICAT	ASTM D1525	℃	B	94
<b>Flammability</b>				
Flammability	UL-94	Class	0.8mm	V-2
	UL-94	Class	1.6mm	V0 5VB
	UL-94	Class	2.0mm	V0 5VB
<b>Electrical Properties</b>				
Volume Resistivity	IEC 60093	Ohm-cm	/	> 1.0E+15
Surface Resistivity	IEC 60093	Ohm	/	> 1.0E+15

**Note:** 1) These are typical property values, not specifications.

2) In case of colored products, the values could vary slightly by color.

3) Values are measured at 23℃ and in RH of 50% on injection molded specimens.

4) UL File No. E65424(CSA File No. LS 66457)

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Processing Parameters	Typical Value	Unit
Drying Temperature	80~90	℃
Drying Time	3~4	hour
Maximum moisture content	0.02	%
Barrel Temperature		
Rear	220~230	℃
Middle	240~250	℃
Front	255~265	℃
Nozzle	250~260	℃
Melt Temperature	255~265	℃
Mold Temperature	50~70	℃
Back Pressure	1~5	MPa
Screw Speed	40~90	rpm

**Note:**

1)The above data is only for reference. Exact settings have to follow the product,injection machine and mold.

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