

# HONES® Conductive Nylon

Polyamide

Guangdong Shunde Hones Polymer Material Co., Ltd.

## Message:

### Features

Inflaming retarding V-0

Excellent physical, electrical and mechanical properties

Chemical and grease resistance

The creep resistance and fatigue resistance

Dimensional stability, can be used for large, thick wall forming parts

Insulation of high thermal conductivity

### Applications

For LED LCD backlight tube, LED TV, LED lamps such as MR16; Also can replace the general aluminum heat sink

For LED lamp, lamp, bulb

Heat radiating parts for household appliances

Heat radiating parts for industrial products

General Information			
Features	Fatigue Resistant		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Grease Resistant		
	Thermally Conductive		
Uses	Appliances		
	Industrial Parts		
	LCD Applications		
	LEDs		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75 to 1.85	g/cm <sup>3</sup>	Internal Method
Molding Shrinkage - Flow (23°C)	0.50 to 0.70	%	Internal Method
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	65.0	MPa	Internal Method
Tensile Elongation <sup>2</sup> (Break)	9.0	%	Internal Method
Flexural Modulus <sup>3</sup>	3000	MPa	Internal Method
Flexural Strength <sup>4</sup>	120	MPa	Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	5.0	J/m	Internal Method
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity	2.5	W/m/K	Internal Method


Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+18	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	15	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	V-0		UL 94
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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