

KumhoSunny AES HW603E

Acrylonitrile Ethylene Styrene
Shanghai KumhoSunny Plastics Co., Ltd.

Message:
HW603E is extrusion grade AES resin.It has high weather resistance properties and high impact in low temperature.HW603E is mainly used in household electrical appliances,singal lamp,outdoor detector,etc.

General Information	
Features	Good Weather Resistance
	Low Temperature Impact Resistance
Uses	Appliances
	Outdoor Applications
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	50.0	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2200	MPa	ASTM D790
Flexural Strength	68.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	350	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	85.0	°C	ASTM D648
Vicat Softening Temperature	95.0	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	

Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	190 to 210	°C
Middle Temperature	200 to 230	°C
Front Temperature	200 to 230	°C
Nozzle Temperature	200 to 230	°C
Processing (Melt) Temp	200 to 230	°C
Mold Temperature	50.0 to 80.0	°C
Back Pressure	1.00 to 5.00	MPa
Screw Speed	30 to 60	rpm

NOTE

1. Rate B (120°C/h)

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