

Kingfa MAC-601 UV

Polycarbonate + ABS

Kingfa

Message:

Kingfa MAC-601 UV is a polycarbonate acrylonitrile butadiene styrene (PC ABS) material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main characteristics of Kingfa MAC-601 UV are:

- flame retardant/rated flame
- Good processability
- Impact resistance

Typical application areas include:

- Electrical/electronic applications
- electrical appliances
- engineering/industrial accessories
- home apps
- Automotive Industry

General Information			
Features	Impact resistance, high		
	Workability, good		
Uses	Thin wall parts		
	Computer components		
	Electrical components		
	Home appliance components		
	Household goods		
	Car dashboard		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.30 - 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	50.0	MPa	ASTM D638
Tensile Elongation ² (Break)	60	%	ASTM D638
Flexural Modulus ³	2100	MPa	ASTM D790
Flexural Strength ⁴	75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	500	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	No Break		ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	125	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	105	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	ASTM D257
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	35	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		UL 94
3.20 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	230 - 250	°C	
Middle Temperature	240 - 260	°C	
Front Temperature	250 - 280	°C	
Processing (Melt) Temp	240 - 280	°C	
Mold Temperature	60.0 - 90.0	°C	
Back Pressure	0.700 - 1.00	MPa	
Injection instructions			
Processing Temperature Limit: 280°CInjection Speed: 60 to 100%			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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