

Kingfa MAC-701

Polycarbonate + ABS

Kingfa

Message:

Kingfa MAC-701 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 features of Kingfa MAC-701 are:

flame retardant/rated flame

Good processability

Impact resistance

Typical application areas include:

Automotive Industry

Electrical/electronic applications

electrical appliances

engineering/industrial accessories

home apps

General Information			
Features	Impact resistance, high Electroplateable 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	1.15	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.40 - 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	55.0	MPa	ASTM D638
Tensile Elongation ² (Break)	60	%	ASTM D638
Flexural Modulus ³	2300	MPa	ASTM D790
Flexural Strength ⁴	85.0	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	130	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	110	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	30	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	220 - 240	°C	
Middle Temperature	230 - 250	°C	
Front Temperature	230 - 260	°C	
Processing (Melt) Temp	220 - 250	°C	
Mold Temperature	40.0 - 80.0	°C	
Back Pressure	0.700 - 1.00	MPa	
Injection instructions			
Processing Temperature Limit: 265°C Injection 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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