

Kingfa MAC-551

Polycarbonate + ABS

Kingfa

Message:

Kingfa MAC-551 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-551 are:

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

Typical application areas include:

- Electrical/electronic applications
- Tools
- Automotive Industry

General Information			
Features	Electroplateable		
	Workability, good		
	Low temperature impact resistance		
Uses	Computer components		
	Power/other tools		
	Car dashboard		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C)	0.50 - 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	50.0	MPa	ASTM D638
Tensile Elongation ² (Break)	20	%	ASTM D638
Flexural Modulus ³	2200	MPa	ASTM D790
Flexural Strength ⁴	72.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	400	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	110	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	100	°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	230 - 240	°C	
Middle Temperature	230 - 250	°C	
Front Temperature	240 - 260	°C	
Processing (Melt) Temp	220 - 250	°C	
Mold Temperature	60.0 - 80.0	°C	
Back Pressure	0.300 - 1.00	MPa	
Injection instructions			
Processing Temperature Limit: 265°C Injection Speed: 60 to 90%			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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