

Kingfa MAC-451PG

Polycarbonate + ABS

Kingfa

Message:

Kingfa MAC-451PG 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-451PG are:

flame retardant/rated flame

Good processability

Impact resistance

Typical application areas include:

Electrical/electronic applications

Automotive Industry

application of coating

General Information			
Features	Impact resistance, good		
	Electroplateable		
	Workability, good		
Uses	Protective cover		
	Computer components		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	19	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)	40	%	ASTM D638
Flexural Modulus ³	2200	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)	450	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, 23.0mm	112	°C	ASTM D648
1.8 MPa, unannealed, 23.0mm	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
Additional Information			
Weather Resistance, ASTM D4459, 200hr xenon lamp: 0.3 delta E			
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 105	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	220 - 240	°C	
Middle Temperature	220 - 250	°C	
Front Temperature	230 - 260	°C	
Processing (Melt) Temp	220 - 240	°C	
Mold Temperature	60.0 - 90.0	°C	
Back Pressure	0.00 - 10.0	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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