

Kingfa MAC-501DY

Polycarbonate + ABS

Kingfa

Message:

Kingfa MAC-501DY 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-501DY 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
Molding Shrinkage - Flow (23°C)	0.40 - 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	55.0	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus ³	2240	MPa	ASTM D790
Flexural Strength ⁴	81.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	460	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	124	°C	ASTM D648

1.8 MPa, unannealed, 6.40mm	108	°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)	28	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	90.0 - 105	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	220 - 235	°C	
Middle Temperature	220 - 240	°C	
Front Temperature	230 - 250	°C	
Processing (Melt) Temp	220 - 240	°C	
Mold Temperature	40.0 - 80.0	°C	
Back Pressure	0.300 - 1.00	MPa	
Injection instructions			
Processing Temperature Limit: 260°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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