

# POLIMAXX AP102

Acrylonitrile Butadiene Styrene  
IRPC Public Company Limited

Message:

AP102 is a plating grade of ABS resin that is especially designed for electro plating of injection molding. It is recommended for automotive parts (radiator grill, motorcycle parts, and name plates), knob, TV component, and cosmetic packaging.

General Information			
UL YellowCard	E132283-222054		
Features	Platable		
Uses	Automotive Applications		
	Packaging		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	21	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, 6.35 mm)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	42.7	MPa	ASTM D638
Flexural Modulus (23°C)	2300	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	60.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	250	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	96.0	°C	
1.8 MPa, Unannealed, 6.35 mm	88.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	190 to 240	°C	

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