

# AIE PP 8010HMS-BF02

Polypropylene

Asia International Enterprise (Hong Kong) Limited

## Message:

### Materials Features:

It is suitable for hot-plate welding. It has high melt flow strength and high sag resistance. It can be made into products of semi-transparent, low temperature resistance, impact resistance materials for automotive, motorcycle carbon canister housings, automotive expansion tank, accumulator case, power battery cases and other parts that require for hot-plate welding.

General Information			
Features	Impact resistance, good		
	High liquidity		
	Low temperature resistance		
Uses	Battery box		
	Application in Automobile Field		
	Water tank		
	Shell		
Processing Method	Blow molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	0.910	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.5	%	ASTM D955
Transverse flow	1.7	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup>	27.0	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	> 140	%	ASTM D638
Flexural Modulus <sup>4</sup>	800	MPa	ASTM D790
Flexural Strength <sup>5</sup>	29.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	74.0	°C	ASTM D648
Melting Temperature	166	°C	DSC
CLTE - Flow (-20 to 150°C)	5.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	> 1.0E+15	ohms · cm	IEC 60093

Dielectric Constant (1 MHz)	3.10		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	HB		UL 94
NOTE			
1.	23°C		
2.	50 mm/min		
3.	50 mm/min		
4.	3.0 mm/min		
5.	3.0 mm/min		

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