

# ABS AF312F

## Injection Molding

### Description

Flame Retardant, High Flow

### Application

Electric/Electronic Applications(TV, Monitor Housing)  
IT/OA device

Properties	Test Condition	Test Method	Unit	Typical Value
<b>Physical</b>				
Specific Gravity		ASTM D792	-	1.18
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~0.7
Melt Flow Rate	220℃/10kg	ASTM D1238	g/10min	>90
<b>Mechanical</b>				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm <sup>2</sup>	420
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	50mm/min		%	5
@ Break	50mm/min		%	20
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm <sup>2</sup>	21,000
Flexural Strength, 6.4mm	15mm/min	ASTM D790	kg/cm <sup>2</sup>	680
Flexural Modulus, 6.4mm	15mm/min	ASTM D790	kg/cm <sup>2</sup>	25,000
IZOD Impact Strength, 6.4mm		ASTM D256		
(Notched)	23℃		kg-cm/cm	16
	-30℃		kg-cm/cm	6
IZOD Impact Strength, 3.2mm		ASTM D256		
(Notched)	23℃		kg-cm/cm	16
	-30℃		kg-cm/cm	7
Rockwell Hardness	R-Scale	ASTM D785	-	103
<b>Thermal</b>				
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	18.6kg		℃	75
	4.6kg		℃	83
Vicat Softening Temperature		ASTM D1525		
	5kg, 50℃/h		℃	82
Flammability		UL94		
1.5mm			class	
2.0mm			class	V-0,5VB
2.5mm			class	V-0,5VB
3.0mm			class	V-0,5VA
Relative Temperature Index		UL 746B		
Electrical			℃	60
Mechanical with Impact			℃	60
Mechanical without Impact			℃	60

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection moulded specimens and after 48 hours storage at 23℃, 50% relative humidity.

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Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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### Processing Guide (Injection Molding)

Processing Parameters	Unit	Value	
Drying Temperature	℃	70 ~ 80	
Drying Time	hrs	2 ~ 4	
Minimum Moisture Content	%	0.01	
Melt Temperature	℃	200 ~ 230	
Cylinder Temperature	Rear	℃	170 ~ 190
	Middle	℃	180 ~ 200
	Front	℃	190 ~ 210
Nozzle Temperature	℃	200 ~ 230	
Mold Temperature	℃	40 ~ 60	
Back Pressure	kg/cm <sup>2</sup>	5 ~ 10	
Screw Speed	rpm	30 ~ 60	

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

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