

SolutionPartner


ABS AF365F

Injection Molding Grade

Description

Flame Retardant, Heat resistant

Application

 Electric parts, IT/OA device
TV, monitor housing

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.18
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~0.7
Melt Flow Rate	220 °C/10kg	ASTM D1238	g/10min	75
Mechanical				
Tensile Strength, 3.2mm @ Yield	50mm/min	ASTM D638	kg/cm ²	420
Tensile Elongation, 3.2mm @ Yield	50mm/min	ASTM D638	%	5
@ Break	50mm/min		%	Min 20
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm ²	
Flexural Strength, 6.4mm	15mm/min	ASTM D790	kg/cm ²	680
Flexural Modulus, 6.4mm	15mm/min	ASTM D790	kg/cm ²	23,000
IZOD Impact Strength, 6.4mm (Notched)	23 °C	ASTM D256	kg·cm/cm	16
	-30 °C		kg·cm/cm	5
IZOD Impact Strength, 3.2mm (Notched)	23 °C	ASTM D256	kg·cm/cm	21
	-30 °C		kg·cm/cm	6
Rockwell Hardness	R-Scale	ASTM D785	-	105
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)	18.6kg	ASTM D648	°C	84
	4.6kg		°C	91
Vicat Softening Temperature	5kg, 50 °C/h	ASTM D1525	°C	90
	1kg, 120 °C/h		°C	
Flammability		UL94		
1.7mm			class	V-1
2.0mm			class	V-0,5VB
3.0mm			class	V-0,5VA
Relative Temperature Index		UL 746B		
Electrical			°C	75(1.8~3.0T)
Mechanical with Impact			°C	75(1.8~3.0T)
Mechanical without Impact			°C	75(1.8~3.0T)

(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 °C, 50% relative humidity.

Updated : 2-Mar-18

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Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		°C	80 ~ 90
Drying Time		hrs	3 ~ 4
Minimum Moisture Content		%	0.01
Melt Temperature		°C	200 ~ 230
Cylinder Temperature	Rear	°C	170 ~ 190
	Middle	°C	180 ~ 200
	Front	°C	190 ~ 210
Nozzle Temperature		°C	200 ~ 230
Mold Temperature		°C	40 ~ 60
Back Pressure		kg/cm ²	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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