



## ABS AF312C

**Injection Molding Grade** 

### Description

Flame Retardant

#### **Application**

Electric parts, IT/OA device TV, monitor housing

Properties	<b>Test Condition</b>	Test Method	Unit	Typical Value
Physical			Mrs.	
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	60
Mechanical		OLID	and the	AMPLO LTO
Tensile Strength, 3.2mm	CA CAS PORTONIA	ASTM D638	Col Capping	
@ Yield	50mm/min		kg/cm <sup>2</sup>	440
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	50mm/min		%	5 🔘
@ Break	50mm/min		%	Min 20
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm <sup>2</sup>	22,000
Flexural Strength, 6.4mm	15mm/min	ASTM D790	kg/cm <sup>2</sup>	700
Flexural Modulus, 6.4mm	15mm/min	ASTM D790	kg/cm <sup>2</sup>	26,000
IZOD Impact Strength, 6.4mm	M. Tilling	ASTM D256	Oth	. A (PP)
(Notched)	23℃	all felt of	kg·cm/cm	23
The state of the s	-30℃	A LIVE	kg·cm/cm	8
IZOD Impact Strength, 3.2mm		ASTM D256		000
(Notched)	<b>23</b> ℃		kg·cm/cm	27
( 111 11)	-30℃		kg·cm/cm	8
Rockwell Hardness	R-Scale	ASTM D785		104
	4/13/20		Aliseo	
Thermal	THE CITY		THE OLIV	
Heat Deflection Temperature, 6.4mm	M. 1412	ASTM D648	M. Hire.	41
(Unannealed)	18.6kg	a field (Cr.	$^{\circ}$	77,53/12
E. T. T. T.	4.6kg	A MILESTE	$^{\circ}$	84
Vicat Softening Temperature		ASTM D1525		
	5kg, 50°C/h		${\mathbb C}$	84
	1kg, 120℃/h		$^{\circ}$	
Flammability	J, -	UL94		
2.5mm			class	V-0
3.0mm	WILL TO		class	V-0
			11/19/20	
Special Chine	CHILO	4147	CHIE	4(4)
Relative Temperature Index		UL 746B	×	A SUPPLY
Electrical			${\mathbb C}$	80
Mechanical with Impact			Ĉ	70
Mechanical without Impact			${\mathbb C}$	80

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 molulded specimens and after 48 hours storage at 23 °C, 50% relative humidty.

Updated: 2-Mar-18

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#### Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		$^{\circ}$	80 ~90
Drying Time	(4) files Filter	hrs	3 ~ 4
Minimum Moisture Content	M Fill OH	%	0.01
Melt Temperature	W. N.S.	C	200 ~ 230
	Rear	O C	170 ~ 190
Cylinder Temperature	Middle	°C	180 ~ 200
	Front	$^{\circ}$	190 ~ 210
Nozzle Temperature	^	°C	200 ~ 230
Mold Temperature	412.0	$^{\circ}$	40 ~ 60
Back Pressure	The City	kg/cm <sup>2</sup>	5 ~ 10
Screw Speed	4 (M) 11717 1	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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