



**Typical Value** 

# ABS AF312B

**Injection Molding Grade** 

### Description

Flame Retardant

**Properties** 

## **Application**

**Test Condition** Test Method

Electric parts, IT/OA device TV, monitor housing

Unit

Troperties	rest condition	Test Method	Offic	Typical value
	P. P. Land	1	P. L. L.	
Physical		0(		
Specific Gravity		ASTM D792	_	1.19
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~0.7
Melt Flow Rate	220℃/10kg	ASTM D1238	g/10min	60
Mechanical			- Table	A THE COLOR
Tensile Strength, 3.2mm	1 (DE OTH	ASTM D638	1/47/20	Artin.
@ Yield	50mm/min		kg/cm <sup>2</sup>	440
Tensile Elongation, 3.2mm	PID	ASTM D638	PILE	
@ 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>	720
Flexural Modulus, 6.4mm	15mm/min	ASTM D790	kg/cm <sup>2</sup>	27,000
IZOD Impact Strength, 6.4mm	HILP.	ASTM D256	Chin	(4) PM
(Notched)	23℃	All Port	kg·cm/cm	22
The Court of the C	<b>-30</b> ℃		kg·cm/cm	7
IZOD Impact Strength, 3.2mm		ASTM D256		000
(Notched)	23℃		kg·cm/cm	27
,	- <b>30</b> ℃		kg·cm/cm	8
Rockwell Hardness	R-Scale	ASTM D785	- ^	105
A1320	alisto.		all Stro	
Thermal	All the Color		1. The Co. L.	
Heat Deflection Temperature, 6.4mm	M. Hara	ASTM D648	St. Illy.	7 (10)
(Unannealed)	18.6kg	a sight in	°C	77,53/12
E STEL	4.6kg		$^{\circ}$	84
Vicat Softening Temperature		<b>ASTM D1525</b>		
	5kg, 50°C/h		°C	84
	1kg, 120℃/h		$^{\circ}$	
Flammability		UL94		
1.0mm			class	V-2
2.1mm	Mary To		class	V-0,5VB
2.5mm			class	V-0,5VA
3.0mm	Chilly	4(4)	class	V-0,5VA
Relative Temperature Index		UL 746B	3.0	11 P
Electrical		FRIE.	$^{\circ}$	75
Mechanical with Impact			Ĉ	70
Mechanical without Impact			$^{\circ}$	75

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

Updated: 2-Mar-18

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**Injection Molding Grade** 

### **Processing Guide (Injection Molding)**

Processing Parameters		Unit	Value
Drying Temperature		$^{\circ}$	80 ~90
Drying Time	1 Think tills	hrs	3 ~ 4
Minimum Moisture Content	M Fall CHE	%	0.01
Melt Temperature	W. 1500	C	200 ~ 230
	Rear	O C	170 ~ 190
Cylinder Temperature	Middle	°C	180 ~ 200
	Front	${\mathbb C}$	190 ~ 210
Nozzle Temperature	^	°C	200 ~ 230
Mold Temperature	4120	$^{\circ}$	40 ~ 60
Back Pressure		kg/cm <sup>2</sup>	5 ~ 10
Screw Speed	4. (M) 11474	rpm	30 ~ 60
1/2		17.7	

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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