



Typical Value

ABS AF345

Properties

Injection Molding

Description	Application
Flame Retardant	Electric/Electronic Applications(TV, Monitor Housing) IT/OA device

Test Method

Unit

Test Condition

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	37
Iechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	430
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	50mm/min		%	5
@ Break	50mm/min		%	20
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm ²	22,000
Flexural Strength, 6.4mm	15mm/min	ASTM D790	kg/cm ²	700
Flexural Modulus, 6.4mm	15mm/min	ASTM D790	kg/cm ²	24,000
IZOD Impact Strength, 6.4mm		ASTM D256		
(Notched)	23 ℃		kg·cm/cm	18
	-30 ℃		kg·cm/cm	6
IZOD Impact Strength, 3.2mm		ASTM D256		
(Notched)	23 ℃		kg·cm/cm	21
	-30 ℃		kg·cm/cm	6
Rockwell Hardness	R-Scale	ASTM D785	-	103
hermal				
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	18.6kg		Ĵ	80
	4.6kg		č	89
Vicat Softening Temperature	Ŭ	ASTM D1525	-	-
U	5kg, 50 ℃/h	-	°C	88
Flammability	<u>,</u>	UL94		
1.5mm			class	V-0
2.0mm			class	5VB
0 5				

2.0mm		class	5VB	
2.5mm		class	5VA	
3.0mm		class	V-0	
Relative Temperature Index	UL 746B			
Electrical		Ĵ	60	
Mechanical with Impact		Ĵ	60	
Mechanical without Impact		Ĵ	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 molulded specimens and after 48 hours storage at 23°C, 50% relative humidty.

Updated : 9-Nov-09

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Injection Molding

Description

Flame Retardant

Application

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

Processing Guide (Injection Molding)

Processing Parameters		Unit	Value	
Drying Temperature		C	70 ~ 80	
Drying Time		hrs	2 ~ 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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