

# AF-312T (Flame Repardant Grade)

## Application

(TBBA flame retardants)TV, VTR, printer, facsimilie, computer, monitor . Electric parts requiring flame retardant property

## Feature

AF-312T is specifically engineered to meet the need for high performance products in the flame retardant resin applications. AF-312T provides an optimum balance of physical properties,high heat resistance,outstanding UV stability and good finished part aesthetics.

Properties	Test Method	Test Condition	Unit	Value
<b>Physical</b>				
Specific Gravity	ASTM D792		g/cc	1.18
Molding Shrinkage	ASTM D955		%	0.4~0.7
Melt Flow Index	ASTM D1238(G)	200 / 5kg	g/10min	6
	-	220 / 10kg	g/10min	50
	ASTM D1238(I)	230 / 3.8kg	g/10min	15
<b>Mechanical</b>				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm <sup>2</sup>	430
			lb/in <sup>2</sup>	6,100
Tensile Modulus	ASTM D638	1mm/min	kg/cm <sup>2</sup>	21,900
			lb/in <sup>2</sup>	
Elongation at yield	ASTM D638	50mm/min	%	5
Elongation at break	ASTM D638	50mm/min	%	25
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm <sup>2</sup>	690
			lb/in <sup>2</sup>	9,810
Flexural Modules	ASTM D790	15mm/min	kg/cm <sup>2</sup>	24,000
			lb/in <sup>2</sup>	341,000
Izod Impact Strength (Noched)	ASTM D256	1/4" , '23	kg·cm/cm	26
		1/4" , '-30	kg·cm/cm	10
		1/8" , '23	kg·cm/cm	33
		1/8" , '-30	kg·cm/cm	10
Rockwell Hardness	ASTM D785	R- Scale	-	102
<b>Thermal</b>				
Heat Deflection Temp	ASTM D648	18.5kg/cm <sup>2</sup> , 1/4" (annealed)		83
				181
		18.5kg/cm <sup>2</sup> , 1/4" (unannealed)		76
				169
		4.6kg/cm <sup>2</sup> , 1/4" (annealed)		88
				190
4.6kg/cm <sup>2</sup> , 1/4" (unannealed)		84		
		183		
Vicat Softening Temp	ASTM D1525	5kg, 50 /h		84
				183
Flammability	UL94	1/8"	class	V-0, 5VB
		1/10"	class	V-0, 5VB
		1/16"	class	v-0
	IEC707	1/8"	mm/min	
		1/16"	mm/min	FV0