



Application

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

Feature

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

Properties

Physical	Method	Condition	Unit	Value
Melt Index	ASTM D1238	200°C/5kg	g/10min	6.5
	ASTM D1238	220°C/10kg	g/10min	55
	ASTM D1238	230°C/3.8kg	g/10min	16
Specific Gravity	ASTM D792	23°C	-	1.18
Mold Shrinkage	ASTM D955	-	%	0.4~0.7
Mechanical	Method	Condition	Unit	Value
Tensile Strength at Yield	ASTM D638	50mm/min	kg/cm <sup>2</sup>	440
			MPa	43.4
			psi	6256.8
Tensile Modulus	ASTM D638	50mm/min	kg/cm <sup>2</sup>	22,000
			MPa	22,000
			lb/in <sup>2</sup>	22,000
Elongation at Yield	ASTM D638	50mm/min	%	5
Elongation at Break	ASTM D638	50mm/min	%	20
Flexural Strength	ASTM D790	15mm/min	kg/cm <sup>2</sup>	710
			MPa	70.1
			psi	10096.2
Flexural Modulus	ASTM D790	15mm/min	kg/cm <sup>2</sup>	25,000
			MPa	25,000
			psi	25,000
IZOD Impact strength	ASTM D256	1/4", 23°C	kg·cm/cm	25
			J/m	245
			ft·lb/in	4.6
	ASTM D256	1/4", -30°C	kg·cm/cm	8
			J/m	78.4
			ft·lb/in	1.5
	ASTM D256	1/8", 23°C	kg·cm/cm	31
			J/m	303.8
ASTM D256	1/8", -30°C	kg·cm/cm	8	
		J/m	78.4	
			ft·lb/in	1.5
Thermal	Method	Condition	Unit	Value
Heat Deflection Temp	ASTM D648	1/4", 18.5kg/cm <sup>2</sup> (unannealed)	°C	74
			°C	74
			°F	165.2
	ASTM D648	1/4", 4.6kg/cm <sup>2</sup> (annealed)	°C	88
			°C	88
			°F	190.4
	ASTM D648	1/4", 4.6kg/cm <sup>2</sup> (unannealed)	°C	84
			°C	84
			°F	183.2
	ASTM D648	1/4", 18.5kg/cm <sup>2</sup> (annealed)	°C	83
			°C	83
			°F	181.4
Flammability	Method	Condition	Unit	Value
Flammability	UL94	1/10"	class	V-0

1) The listed values should be used for referential purpose only.