

EF - 378 (Flame Retardant Grade)

Application

Halogen free, Printer, facsimile, computer, monitoret. Electric parts requiring flame retardant property.

Feature

EF - 378 is specifically engineered to meet the need for high performance products in the halogen free flame retardant resin applications. EF - 378 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
Physical				
Specific Gravity	ASTM D792			1.05
Molding Shrinkage	ASTM D955		%	0.4 - 0.7
Melt Flow Index	ASTM D1238(G)	200 / 5kg	g/10min	4
	-	220 / 10kg	g/10min	33
	ASTM D1238(I)	230 / 3.8kg	g/10min	13
Mechanical				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm ²	520
			lb/in ²	7,400
Tensile Modulus	ASTM D638	1mm/min	kg/cm ²	22,000
			lb/in ²	310,000
Elongation at yield	ASTM D638	50mm/min	%	6
Elongation at break	ASTM D638	50mm/min	%	25
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm ²	830
			lb/in ²	12,000
Flexural Modules	ASTM D790	15mm/min	kg/cm ²	28,000
			lb/in ²	400,000
Izod Impact Strength (Noched)	ASTM D256	1/4" , '23	kg·cm/cm	18
		1/4" , ' - 30	kg·cm/cm	6
		1/8" , '23	kg·cm/cm	21
		1/8" , ' - 30	kg·cm/cm	6
Rockwell Hardness	ASTM D785	R - Scale	-	110
Thermal				
Heat Deflection Temp	ASTM D648	18.5kg/cm ² , 1/4" (annealed)		90
				194
		18.5kg/cm ² , 1/4" (unannealed)		83
				181
		4.6kg/cm ² , 1/4" (annealed)		95
				203
4.6kg/cm ² , 1/4" (unannealed)		90		
		194		
Vicat Softening Temp	ASTM D1525	5kg, 50 /h		95
				203
Flammability	UL94	1/8"	class	V - 2
		1/16"	class	V - 2
		1/36"	class	V - 2
	IEC707	1/8"	mm/min	
		1/16"	mm/min	FV0