

TR - 300 (Flame Retardant Grade)

Application

Monitor, FAX, Audio etc

Feature

Flame retardant transparent ABS

Properties	Test Method	Test Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792		g/cc	1.05
Molding Shrinkage	ASTM D955		%	0.4 - 0.7
Melt Flow Index	ASTM D1238(G)	200 / 5kg	g/10min	3
	-	220 / 10kg	g/10min	35
	ASTM D1238(I)	230 / 3.8kg	g/10min	10
Mechanical				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm ²	430
			lb/in ²	6,100
Tensile Modulus	ASTM D638	1mm/min	kg/cm ²	21,200
			lb/in ²	
Elongation at yield	ASTM D638	50mm/min	%	6
Elongation at break	ASTM D638	50mm/min	%	55
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm ²	700
			lb/in ²	9,950
Flexural Modules	ASTM D790	15mm/min	kg/cm ²	22,000
			lb/in ²	312,000
Izod Impact Strength (Noched)	ASTM D256	1/4" , '23	kg·cm/cm	10
		1/4" , '- 30	kg·cm/cm	4
		1/8" , '23	kg·cm/cm	11
		1/8" , '- 30	kg·cm/cm	4
Rockwell Hardness	ASTM D785	R - Scale	-	108
Thermal				
Heat Deflection Temp	ASTM D648	18.5kg/cm ² , 1/4" (annealed)		89
				192
		18.5kg/cm ² , 1/4" (unannealed)		82
				180
		4.6kg/cm ² , 1/4" (annealed)		100
				212
4.6kg/cm ² , 1/4" (unannealed)		90		
		194		
Vicat Softening Temp	ASTM D1525	5kg, 50 /h		90
				194
Flammability	UL94	1/8"	class	
		1/10"	class	
		1/16"	class	V - 2
	IEC707	1/8"	mm/min	
		1/16"	mm/min	