

# TR - 558A (Transparent Grade)

## Application

Home appliance, Vacuum cleaner parts, air conditioner panel, washing machine panel, copy machine, facsimile, printer parts, compact cases, toys

## Feature

TR - 558A has excellent transparency, tensile strength physical properties and processability. Since its properties are well balanced, it can be applied widely to variety of electronic parts, OA machines requiring transparency and high impact.

Properties	Test Method	Test Condition	Unit	Value
<b>Physical</b>				
Specific Gravity	ASTM D792		g/cc	1.11
Molding Shrinkage	ASTM D955		%	0.4~0.7
Melt Flow Index	ASTM D1238(G)	200 / 5kg	g/10min	2
	-	220 / 10kg	g/10min	26
	ASTM D1238(I)	230 / 3.8kg	g/10min	10
<b>Mechanical</b>				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm <sup>2</sup>	500
			lb/in <sup>2</sup>	7,200
Tensile Modulus	ASTM D638	1mm/min	kg/cm <sup>2</sup>	22,200
			lb/in <sup>2</sup>	315,000
Elongation at yield	ASTM D638	50mm/min	%	6
Elongation at break	ASTM D638	50mm/min	%	40
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm <sup>2</sup>	780
			lb/in <sup>2</sup>	11,000
Flexural Modules	ASTM D790	15mm/min	kg/cm <sup>2</sup>	25,000
			lb/in <sup>2</sup>	354,000
Izod Impact Strength (Noched)	ASTM D256	1/4" , '23	kg·cm/cm	11
		1/4" , ' -30	kg·cm/cm	5
		1/8" , '23	kg·cm/cm	11
		1/8" , ' -30	kg·cm/cm	5
Rockwell Hardness	ASTM D785	R - Scale	-	112
<b>Thermal</b>				
Heat Deflection Temp	ASTM D648	18.5kg/cm <sup>2</sup> , 1/4" (annealed)		87
				188
		18.5kg/cm <sup>2</sup> , 1/4" (unannealed)		83
				181
		4.6kg/cm <sup>2</sup> , 1/4" (annealed)		98
				208
4.6kg/cm <sup>2</sup> , 1/4" (unannealed)		90		
		194		
Vicat Softening Temp	ASTM D1525	5kg, 50 /h		88
				190
Flammability	UL94	1/8"	class	HB
		1/10"	class	
		1/16"	class	HB
	IEC707	1/8"	mm/min	
		1/16"	mm/min	