

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
Physical				
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	20
	ASTM D1238(I)	230℃/ 3.8kg	g/10min	9
Mechanical				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm ²	500
			lb/in ²	7,200
Tensile Modulus	ASTM D638	1mm/min	kg/cm ²	22,200
			lb/in ²	
Elongation at yield	ASTM D638	50mm/min	%	7
Elongation at break	ASTM D638	50mm/min	%	49
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm ²	800
			lb/in ²	11,500
Flexural Modules	ASTM D790	15mm/min	kg/cm ²	23,800
			lb/in ²	339,000
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
Thermal				
Heat Deflection Temp	ASTM D648	18.5kg/cm ² , 1/4" (annealed)	℃	89
			°F	192
		18.5kg/cm ² , 1/4" (unannealed)	℃	85
			°F	184
		4.6kg/cm ² , 1/4" (annealed)	℃	100
			°F	212
Vicat Softening Temp	ASTM D1525	5kg, 50℃/h	℃	90
			°F	195
Flammability	UL94	1/8"	class	HB
		1/10"	class	
		1/16"	class	HB
	IEC707	1/8"	mm/min	
		1/16"	mm/min	