

TR-557I (Transparent ABS)



Item	Test method	Test Condition	Unit	Value
PHYSICAL				
Melt Index	ASTM D1238	200°C/5kg	g/10min	2
		220°C/10kg	g/10min	20
		230°C/3.8kg	g/10min	8.7
Specific Gravity	ASTM D792		-	1.09
Mold Shrinkage	ASTM D955		%	0.4~0.7
MECHANICAL				
Tensile Strength	ASTM D638	50mm/min	kg/cm ²	420
			MPa	41.5
			lb/in ²	5972.4
Tensile Modulus	ASTM D638	50mm/min	kg/cm ²	178000
			MPa	1756.9
			lb/in ²	253116
Elongation at Yield	ASTM D638	50mm/min	%	>6
Elongation at Break	ASTM D638	50mm/min	%	40
Flexural Strength	ASTM D790	15mm/min	kg/cm ²	630
			MPa	62.2
			lb/in ²	8958.6
Flexural Modulus	ASTM D790	15mm/min	kg/cm ²	20500
			MPa	2023.3
			lb/in ²	291510
Izod Impact Strength(notche)	ASTM D256	1/4", 23°C	kg cm/cm	15
			J/m	147
		ft-lb/in	2.8	
		1/4", -30°C	kg cm/cm	7
			J/m	68.6
		ft-lb/in	1.3	
		1/8", 23°C	kg cm/cm	16
			J/m	156.8
ft-lb/in	2.9			
1/8", -30°C	kg cm/cm	6		
	J/m	58.8		
ft-lb/in	1.1			
Rockwell Hardness	ASTM D785	R-scale		104
THERMAL				
Heat Deflection Temp	ASTM D648	1/4", 18.56kg/cm ² (annealed)	°C	89
			°F	192.2
		1/4", 18.56kg/cm ² (unannealed)	°C	83
			°F	181.4
		1/4", 4.6kg/cm ² (annealed)	°C	95
°F	203			
Vicat Softening Temp	ASTM D1525	1kg/120°C/h	°C	98
			°F	208.4
		5kg/50°C/h	°C	93
			°F	199.4
ELECTRICAL				
HWI	UL 746A	PLC Code		4
HAI			0	
HVTR			0	
Arc Resistance	ASTM D495			6
CTI	UL 746A			0
FLAMMABILITY				
Flammability	UL 94	1/8"	class	HB
		1/10"		HB
	IEC 707	1/8"	mm/min	
		1/16"		
CHARACTERISTIC				High Impact, Ice color

*Note : 1)The values of properties in the above table have been obtained by the test pieces(natural color) manufactured under certain of injection.

2)The listed values should be used for referential purposed only.