

TR - 556 (Transparent Grade)

Application

Sound proofing wall, Canopy, Other transparent sheets

Feature

TR - 556 has excellent transparency, impact strength and stiffness. TR - 556 is specially designed grade for sheets such as Sound proofing wall, Canopy application.

Properties	Test Method	Test Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792		g/cc	1.09
Molding Shrinkage	ASTM D955		%	0.4 - 0.7
Melt Flow Index	ASTM D1238(G)	200 / 5kg	g/10min	1
	-	220 / 10kg	g/10min	5
	ASTM D1238(I)	230 / 3.8kg	g/10min	2
Mechanical				
Tensile Strength at yield	ASTM D638	50mm/min	kg/cm ²	420
			lb/in ²	6,000
Tensile Modulus	ASTM D638	1mm/min	kg/cm ²	21,200
			lb/in ²	300,900
Elongation at yield	ASTM D638	50mm/min	%	8
Elongation at break	ASTM D638	50mm/min	%	50
Flexural Strength at yield	ASTM D790	15mm/min	kg/cm ²	680
			lb/in ²	9,700
Flexural Modules	ASTM D790	15mm/min	kg/cm ²	19,200
			lb/in ²	273,000
Izod Impact Strength (Noched)	ASTM D256	1/4" , '23	kg·cm/cm	16
		1/4" , ' - 30	kg·cm/cm	7
		1/8" , '23	kg·cm/cm	17
		1/8" , ' - 30	kg·cm/cm	6
Rockwell Hardness	ASTM D785	R - Scale	-	105
Thermal				
Heat Deflection Temp	ASTM D648	18.5kg/cm ² , 1/4" (annealed)		88
				190
		18.5kg/cm ² , 1/4" (unannealed)		83
				181
		4.6kg/cm ² , 1/4" (annealed)		96
				204
4.6kg/cm ² , 1/4" (unannealed)		90		
		194		
Vicat Softening Temp	ASTM D1525	5kg, 50 /h		92
				197
Flammability	UL94	1/8"	class	HB
		1/10"	class	
		1/16"	class	HB
	IEC707	1/8"	mm/min	
		1/16"	mm/min	