



**GRANEX ACRYLIC SOLID SURFACES**

GRANEX acrylic solid surface is available in 6 and 12 mm thickness, standard sheet size of 760 x 2440 and 760 X 3660 mm. Product is available in a variety of colours and designs. Sizes and thickness can be changed based on feasibility and customer needs.

SR. NO.	PROPERTIES	TEST METHOD	ATTRIBUTES OF PERFORMANCE	UNIT OF MEASUREMENT	RESULTS (AS PER STANDARD)
<b>1</b>	<b>PHYSICAL PROPERTIES</b>				
1.1	Density	ISO 1183-1:2019	Density	gm/cc	1.7-1.8
1.2	Rockwell M, Hardness	ASTM D-785-08: 2015	Rockwell Units, M	no.	≥ 80
<b>2</b>	<b>MECHANICAL PROPERTIES</b>				
2.1	Tensile Strength	ASTM D-638-14	Stress	Mpa	42
2.2	Tensile Modulus	ASTM D-638-14	Stress	Mpa	102905
2.3	Tensile Elongation at break	ASTM D-638-14	Deformation due to stress	%	0.6
2.4	Flexural Strength	ASTM D-790-10	Stress	Mpa	60
2.5	Flexural Modulus	ASTM D-790-10	Stress	Mpa	9542
2.6	Compressive Strength	ISO 604:2002	Stress	Mpa	165
2.7	Izod Impact Strength	ASTM D-256-10: 2018	Impact by Izod tester	J/m	24
2.8	Water Absorption	ASTM D 570-18	Water penetration by surface	%	0.01
<b>3</b>	<b>HEAT &amp; FLAME PROPERTIES</b>				
3.2	Heat Deflection Temperature	ASTM D-648-07	Temperature	°C	104
3.3	High Temperature Resistance	NEMA LD 3-3.6: 2005	Appearance	--	Pass
3.4	Boil Water Resistance	NEMA LD 3-3.5: 2005	Appearance	--	Pass
3.5	Limiting Oxygen Index	ASTM D-2863-17a	Oxygen Index	%	48
3.6	Dry Heat Resistance	ISO 19712-2.12: 2007	Appearance	Rating	5 (No visible change)
3.7	Wet Heat Resistance	ISO 19712-2.13: 2007	Appearance	Rating	5 (No visible change)
3.8	Cigarette Burns	ISO 19712-2.11: 2007	Appearance	Rating	5
<b>4</b>	<b>WEATHERING PROPERTIES</b>				
4.1	Weathering for 1000 Hrs	ASTM G 155-04 (Cycle-1)	Appearance	--	No visible change in colour and appearance
<b>5</b>	<b>FUNGUS AND BACTERIAL RESISTANCE</b>				
5.1	Fungus and Bacterial Growth	ISO: 846:1997	Visually Examined	Gradation	0-No Fungus and Bacterial Growth
<b>6</b>	<b>FLAME RESISTANCE</b>				
6.1	Flame test	UNE EN 13501-1:2019	Physically	Classification	Classified as B-s1,d0

**Disclaimer :**

This Product Technical Sheet gives technical information relevant to the performance of the product as tested by STYLAM and External certified testing agencies. STYLAM reserves the right to change product composition and characteristics at any time.