

GLASS COMPOSITES

SILICON GLASS (G7)

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>VALUE</u>	<u>UNIT</u>
<u>MECHANICAL CHARACTERISTICS</u>			
TENSILE STRENGTH	ISO 527	250	Mpa
FLEXURAL STRENGTH	ISO 178	400	Mpa
SHEAR STRENGTH	EN60893-2		Mpa
IMPACT STRENGTH	ISO 179	50	KJ/m ²
COMPRESSIVE STRENGTH	ISO 604	280	Mpa
MODULUS ELASTICITY	ISO 178	13 000	Mpa
<u>PHYSICAL STRENGTH</u>			
SPECIFIC GRAVITY	ISO 1183	1.8	g/cm ³
WATER ABSORPTION	ISO 62/1	40	mg
THERMAL CLASSIFICATION	IEC 216	180 (H)	°C
<u>ELECTRICAL CHARACTERISTICS</u>			
ARC RESISTANCE	ASTM D495	180	sec
ELECTRICAL STRENGTH IN OIL	IEC 243-1		
FLAT WISE PERPENDICULAR (3MM)		10	KV/mm
EDGEWISE PARALLEL		30	KV
PERMITTIVITY AT 48-62 Hz	IEC 250	6	
DISSIPATION FACTOR AT 48-62Hz	IEC 250	0.07	
INSULATION RESISTANCE	IEC 167	1 x 10 ⁹	ohm
<u>FIRE BEHAVIOR</u>			
FLAME RESISTANCE	UL 94	Vo	
SMOKE INDEX	ASTM E662	IN CONFORMITY	
STANDARDS MET			
EW			
NEMA L1		G7	
DIN 7735		Hgw2372	
BS 3953		S15	
CEI		SV	
COLOUR		IVORY	