



DATA SHEET GLASS COMPOSITES

Mechanical	Normative	LG7	LEO	LM36	LGP	SG200	FHT	UNITS
Tensile Strength	ISO527	90	300	300	70	85		MPa
Flexural Strength	ISO 178	120	450	450	130	130		MPa
Shear Strength	EN60893-2				30			MPa
Impact Strength	ISO 179	50	50	50	40			KJ/m ²
Compressive Strength	ISO 604	50	300	300	250	200	100	MPa
Modulus of Elasticity	ISO 178	13 000	25 000	25 000	9 000			MPa
Physical Strength								
Specific Gravity	ISO 1183/1	1.8	1.9	1.9	1.8	1.7	1.6	g/cm ³
Water Absorption	ISO 62/1	40	22	22	70	20	70	mg
Thermal Classification	IEC 216	180 (H)	155 (F)	180 (H)	155 (F)	210 (H)	190/200	°C
Electrical								
ARC Resistance	ASTM D495	180	-	-	180	120	139	sec
Electrical Strength In Oil	IEC 243-1							
Flat Wise Perpendicular (3mm)		8	15	15	17.7	19.7	17.7	KV/mm
Edge Wise Parallel		25	40	40	60	50	60	KV
Permittivity At 48-62 Hz	IEC 250	6	5.5	5.5	4.1	4.6	6.4	
Dissipation Factor At 48-62Hz	IEC 250	0.07	0.04	0.04	0.013	0.037	0.07	
Insulation Resistance	IEC 167	1 x 10 ⁹	5 x 10 ¹⁰	5 x 10 ¹⁰	3.1 x 10 ¹²	1.45 x 10 ¹⁴		ohm
Fire Behaviour								
Flame Resistance	UL94	Vo			Vo	HB	HB	
Smoke Index	ASTM E662	In Conformity						
Standards Met								
EW					UPGM203			
NEMA L1		G7	G11	G11	GPO3	GP01		
DIN 7735		Hgw 2372	Hgw 2372.4	Hgw 2372.4	Hm 2471	Hm2471		
BS 3953		S15	EP7	EP7				
CEI		SV	EV	EV				
Colour		Ivory	Natural	Natural	Red	Cream	Tan	

This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. Data supplied above are "Typical Values", not to be considered "Specification Values".