



Phenolex® Industrial Laminated Plastics Engineering Data

The information below is believed to be accurate and reliable. Oliner Fibre Co. assumes no responsibility for end-use applications and no performance warranty is expressed or implied. Values shown are typical, are not guaranteed, nor to be used for specifications without approval.

		PP-116	CP-103	LP-112	LP-114	SG-230	EG-403	EG-413	
NEMA / ASTM Grade		XX	C	L	LE	G-7	G-10 /FR-4	G-11	
Mechanical									
Density	gm/cm ³	1.37	1.36	1.36	1.36	1.80	1.82	1.80	
Tensile Strength	MD	psi	19,000	10,000	13,000	12,500	22,000	40,000	43,000
	CD	psi	13,000	8,000	9,000	8,500	18,000	35,000	37,000
Compressive Strength	psi	35,000	36,000	36,000	36,000	40,000	60,000	64,000	
Flexural Strength	MD	psi	20,000	18,000	16,800	16,800	24,000	55,000	80,000
	CD	psi	18,000	16,500	15,500	14,800	19,000	45,000	72,000
Izod Impact Strength	MD	ft/lb/in	0.75	2.20	1.38	1.35	10.00	7.00	12.00
	CD	ft/lb/in	0.60	1.90	1.30	1.20	9.40	5.50	9.50
Hardness, Rockwell M Scale		115	105	105	105	100	110	112	
Bond Strength	lbs	1,500	2,200	1,800	1,650	800	2,500	1,700	
Electrical									
Arc Resistance	seconds					220	110	185	
Dielectric Strength, Perpendicular	volts/mil	700			360	400	800	850	
Dielectric Strength, Parallel	kV	50	30	35	50	50	65	75	
Dissipation Factor 10 ⁶		0.032			0.044	0.003	0.016	0.019	
Dielectric Constant		4.69			4.32	3.9	4.8	5.2	
Physical									
Heat Resistance, Short Time	°F	275	275	300	300	500	350	400	
Heat Resistance, Continuous	°F	250	225	250	250	400	250	300	

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