

Glass Epoxy Technical Data

Material / Properties	Roechling Durostone CAS761	Roechling Durostone CAG762	Von Roll CDM ESD 68910 – IGM L 200 Durapol	Von Roll CDM ESD 68610 Delmat	Von Roll CDM ESD 68940	Nikkan Industries Nikaplate L-6706B	Nikkan Industries Nikaplate L-6716B	Nikkan Industries Nikaplate L-6756B	Nikkan Industries Nikaplate L-6786G	Electrolock-XP	Haysite H261	HandaPlate 100	Norplex Micarta WaveMax 6000
Color	Black	Grey	RAL 9005 Jet Black	Black	Grey	Black	Black	Black	Grey	Granite Grey	Black	Black	Black
Anti-Static	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Density g/cm³	1.85	1.85	1.8-1.9	1.85	1.9	1.85	1.85	1.71	1.92	1.72	1.7	1.98	1.84
Flexural Strength (ambient)	360 MPa	360 Mpa	350 MPa	N/A	300-400 MPa	480 Ma	360 Mpa	360 Mpa	360 Mpa	55,000 PSI	43000 PSI	16000 PSI	37800 PSI
Flexural Strength (temp)	N/A	N/A	180 (130°C) MPa	N/A	200-250 MPa	N/A	N/A	NA	N/A	NA	34,000 PSI	25000 PSI	34200 PSI
Impact Strength	N/A	N/A	180 kJ/m² (Charpy)	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	
Glass Transition Temperature (Tg) °C	N/A	N/A	N/A	N/A	N/A	175	120	160	125	N/A	N/A	N/A	180
Pyrolysis Temperature °C	N/A	N/A	N/A	N/A	N/A	391	415	405	415	N/A	N/A	N/A	
Barcol Hardness	N/A	N/A	N/A	N/A	N/A	75	68	70	68	N/A	N/A	52	
Water Absorption %	<0.20	<0.20	<0.18	<0.20	<0.10	0.1	0.2	0.25	0.25	<0.20	<0.25	<0.20	0.12
Coefficient of Linear Expansion 10-6/°K	11 (no indication of direction)	11 (no indication of direction)	15 (ppm/K) (parallel)60-70 (ppm/K)(perp)	64 (perpendicular)	10.10E-6 (parallel)	N/A	N/A	NA	N/A	NA	N/A	N/A	16
Thermal Conductivity W/m°K	0.25	0.25	0.3	0.3	0.3	0.69	0.51	0.49	0.6	NA	N/A	0.2	0.2
Maximum Operating Temperature °C	350 (10-20 sec)	350 (10-20 sec)	350 (10 min)	N/A	350	350	350	350	350	385	N/A	300	360(short periods. Not specified)
Service Operating Temperature °C	260	260	260	300	300	300	300	300	300	275	300	300	300
Surface Resistivity Ohms	10 ⁵ ~10 ⁸	10 ⁵ ~10 ⁸	10 ⁵ ~10 ⁹	10 ⁵ ~10 ⁹	10 ⁵ ~10 ⁹	10 ⁶ ~10 ⁹	10 ⁶ ~10 ⁹	10 ⁶ ~10 ⁹	10 ⁶ ~10 ⁹	10 ⁸ ~10 ¹¹	10 ⁵ ~10 ⁹	10 ⁵ ~10 ¹⁰	10 ⁴ ~10 ¹¹
Modulus of Elasticity Mpa	18000	18000	16000	N/A	18000					NA	N/A	N/A	
Specific Heat Capacity J/kg °K	930	930	N/A	N/A	N/A	1290	1280	1250	1500	NA	N/A	N/A	
Sheet Size mm	1220 x 1220	1220 x 1220	2350 x 1335	2350 x 1335	2350 x 1335	1020 x 1220	1020 x 1220	1020 x 1220	1020 x 1220	635 x 635	1335 x 2350	1220 x 2440	1220 x 1220
Thickness Tolerance mm	+/- 0.10	+/- 0.10	N/A	N/A	N/A	+/- 0.08	+/- 0.08	+/- 0.08	+/- 0.08	+/-0.127	N/A	N/A	+/-0.003
Flatness Tolerance mm	+/- 0.10 mm	+/- 0.10 mm	1.0mm (DIN ISO1101)	N/A	N/A					+/- 0.381	N/A	+/- 0.10 mm	NEMA standard
RoHS Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes