

Wave Solder Pallet Material Comparison

	Durapol IGM L200	Durostone CAS761	Glastic CBC-C	
Description	Value	Value	Value	Units
Color	RAL 9005 Jet Black	Black	Black	N/A
Anti-Static	Yes	Yes	Yes	N/A
Density	1.8-1.9	1.85	1.9	g/cm ³
Flexural Strength (ambient)	350	360	352	MPa
Flexural Strength (temp)	180 (130°C)	N/A	N/A	MPa
Impact Strength	180 kJ/m ² (Charpy)	N/A	15 ft/lbs (Izod)	Varying units
Water Absorption	<0.18	<0.20	<0.20	%
Coefficient of Linear Expansion	15 (ppm/K) (parallel) 60-70 (ppm/K) (perp)	11 (no indication of direction)	7.1 (parallel) 20.5 (perpendicular)	10 ⁻⁶ /°K
Thermal Conductivity	0.3	0.25	0.32	W/m°K
Maximum Operating Temperature	350 (10 min)	350 (10-20 sec)	N/A	°C
Service Operating Temperature	260	260	300	°C
Surface Resistivity	10*5 – 10*9	10*5 – 10*8	10*5 – 10*9	Ohms
Modulus of Elasticity	16,000	18,000	15,170	MPa
Specific Heat Capacity	N/A	930	N/A	J/kg °K
Sheet Size	1250 x 2000	1220 x 2440	1000 x 2000	mm
Thickness Tolerance	N/A	+/- 0.10	+/- 0.051	mm
Flatness Tolerance	1.0mm (DIN ISO1101)	+/- 0.10 mm	N/A	Varying units

All data and values of this technical information have been compiled from the manufacturers and are provided for informational purposes only. The following data values were most likely not determined in the same testing manner so may be inaccurate to directly compare.

Durapol IGM L200 (previously named LRA)

- Constructed of 100% polyester resin and glass filament.
- Our most popular composite for use in soldering tooling. Excellent value/cost ratio
- Constructed from a proprietary polyester resin with a reinforcement of glass filament. Slight compliancy from polyester increases toughness, which allows thin wall cross-sections without fracture. This compliancy also causes the material to be less rigid than 100% epoxy composites but is more than sufficient for most applications.
- Consistently capable of 6k-12k passes through the wave solder process. Longevity is dependant on cleaning and allowing tooling to cool between cycles. Industry feedback indicates L200 is less reactive to fluxes, which cause premature breakdown in other materials.
- Excellent dimensional stability and will retain flatness through repeated reflow temperature cycling
- Superior machinability allows manufacturing to the tightest tolerances
- Good chemical resistance, not light detectable

Durostone CAS761

- Constructed of epoxy resin, 5% polyester resin and approximately 65% glass filament.
- Very Similar to Delmat's composite characteristics
- Good chemical resistance.

Glastic CBC-C

- Similar properties of epoxy based composites
- Small sheet (1m x 2m) results in decreased sheet utilization

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