

DUCOLITE[®] GM 654

High-temperature resistant antistatic material suitable for building solder pallets or assembly frames in general purpose and cost sensitive applications



GM 654 is glass matt composite type which enables easier machining. Standard material color is black but grey or blue is also available.

DUCOLITE is the name of the cost effective epoxy glass material which is highly durable in different kinds of soldering processes including the lead free soldering. DUCOLITE material has been developed to answer the market demands that require easy to use and more economical but still very reliable material in the dedicated anti-static applications. DUCOLITE has excellent dimensional stability, very low water absorption and weight loss. Also the machining workability is excellent enough to satisfy customers needs for high productivity. DUCOLITE material is supplied in a master sheet format of 2440mm x 1220mm which is highly beneficial to get the most usage when cut into working panels. The material is available in stock with most frequently required thicknesses. The main advantages to the other materials on the market are for example as follows.

- ◆ High cost effectiveness through great durability but still reasonable price.
- ◆ Bright color available for better optical sensor application in process.
- ◆ Production time saving by high speed workability.

Technical data (Stand Oct. 2015)

Properties	Unit, Condition	Value (typical)
Surface Resistance / Oberflächenwiderstand	Ohm	1×10^7
Specific Gravity / Dichte	g/cm ³	1,95
Bending Strength / Biegefestigkeit	Mpa	350
Flexural Modulus / Elastizitätsmodul	Mpa	$2,20 \times 10^4$
Thermal Expansion / Wärmeausdehnungskoeffizient	10 ⁻⁶ /k	7~10
Max. Operating Temperature / Grenztemperatur	°C	330
Standard Operating Temperature/ Dauerbetriebstemperatur	°C	280
Flatness Tolerance / Ebenheitstoleranz	mm	± 0,15
Parallelism / Planparallelität	mm	± 0,10
Thickness Tolerance / Dickentoleranz	mm	± 0,10
Water Absorption / Wasseraufnahme	%	0,08
Thermal Conductivity / Wärmeleitzahl	W/mK	0,50
Standard Sheet Format / Standard Tafelformat	mm	2440 x 1220 (+10/-0)