HIGH TEMPERATURE ELONGATION COPPER FOIL

MATERIAL DATASHEET
INTRODUCTION

HTE Copper foil is a high purity IPC-4562 Grade 3 electrodeposited HTE copper foil, produced by Chang Chun Petrochemical Company (CCP), Taiwan. The outer face of the Foil is semi-matt and is ‘anti-tarnish’ treated to reduce oxidation and corrosion during storage. The matt side is treated with Zn/Cr (brown) in order to optimise adhesion to prepreg.

CCP Foils, are the Foil of choice for many Far East Laminators, and is widely used in the production of cores and laminates.

PRODUCT CHARACTERISTICS

• Single side treated Copper Foil according to IPC-4562 class 3.
• Surface plated with Zn/Cr

MAIN APPLICATIONS

• Glass Fibre Copper Clad Laminates (FR-4, CEM-1, CEM-3, High Tg, HF)
• Multi-layer Printed Circuit Board.
# Product Specification

## Item | Unit | Value | Test Method
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**Nominal Thickness** | µm | 9, 12, 18, 35, 70 |  
| oz | 1/4, 1/3, 1/2, 1, 2 |  
**Thickness by Weight** | g/m² (+/-5%) | 76, 107, 153, 285, 585 | IPC-TM-650  
| % | ≥99.8, ≥99.8, ≥99.8, ≥99.8, ≥99.8 | IPC-TM-650  
**Purity** | Tensile Strength AT RT | kg/mm | ≥21, ≥21, ≥21, ≥28, ≥28 | IPC-TM-650  
| AT 180°C | kg/mm | ≥15, ≥15, ≥15, ≥15, ≥15 | IPC-TM-650  
**Elongation AT RT** | % | ≥3, ≥3, ≥3, ≥5, ≥5 | IPC-TM-651  
| AT 180°C | % | ≥2, ≥2, ≥3, ≥3, ≥3 | IPC-TM-650  
**Roughness of Shiny Side (RA)** | µm | <0.43, <0.43, <0.43, <0.43, <0.43 | IPC-TM-650  
| Roughness of Matt Side (RZ) | µm | <6, <7, <8, <10, <14 | IPC-TM-650  
**Peel Strength** | kg/cm | ≥2.0, ≥2.0, ≥2.0, ≥2.0, ≥2.0 | IPC-TM-650  
| lb/in | ≥11.2, ≥11.2, ≥11.2, ≥11.2 |  

*Other thicknesses available upon request **Peel Strength is determined using Standard FR-4 substrate (6 sheets 7628 Prepreg)*

## How to Order

HTE Copper Foil is available in the above thicknesses, other thicknesses available on request.  
HTE Copper Foil is supplied in cut panels to customer requirements.