

With the advent of the 5G era, demand for higher product performance continues to increase, such as for more flame-retardant and heat-resistant materials for communications applications including CPE, set-top boxes, routers, base stations, and high-end electrical appliances. In response to this increased demand, CHIMEI has developed PC-545, featuring truly high-flame retardant and high-heat resistant properties with great processability. PC-545 supports applications with high working temperatures and solves issues arising from poor rheological properties. This material fills a gap in the market, due to the previous reliance on flame-retardant PC materials.

WONDERLOY® PC Alloy PC-545

This new PC alloy material is a result of CHIMEI's continuous efforts in the development of composite materials through Client-Side Innovation™. While meeting the market's temperature resistance requirements, this new material greatly reduces any aesthetic or quality issues arising from insufficient fluidity and processability.

NETCOM DEVELOPING TREND

1. Upgrade of communications protocol - 5G, WiFi 6, higher transfer speed.
2. Multifunctional product – router, wireless charging and etc. All in one.

➡ Higher PCB temperature

➡ Higher temperature resist for casing

CHIMEI PC ALLOY PRODUCT PORTFOLIO

PC-540A

- ✓ HDT = 83° C
- ✓ RTI = 80° C
- ✓ VO = 1.5MM

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- Complement the temperature gap between PC/ABS & FR-PC.
- High heat resistance and good processability.

CERTIFICATIONS

1. UL Flammability: 1.2mm V0 \ 2.5mm 5VA
2. UL Glow Wire:
 - (1) 1.5mm: GWIT (800°C) \ GWFI (960°C)
 - (2) 3.0mm: GWIT (800°C) \ GWFI (960°C)
3. UL ball pressure temperature: 110°C



APPLICATIONS

CPE, Set-Top Boxes (Cable Boxes), Routers, Base Stations, and High-End Electrical Appliances,
Li-Battery Casings and other High Heat Applications.

