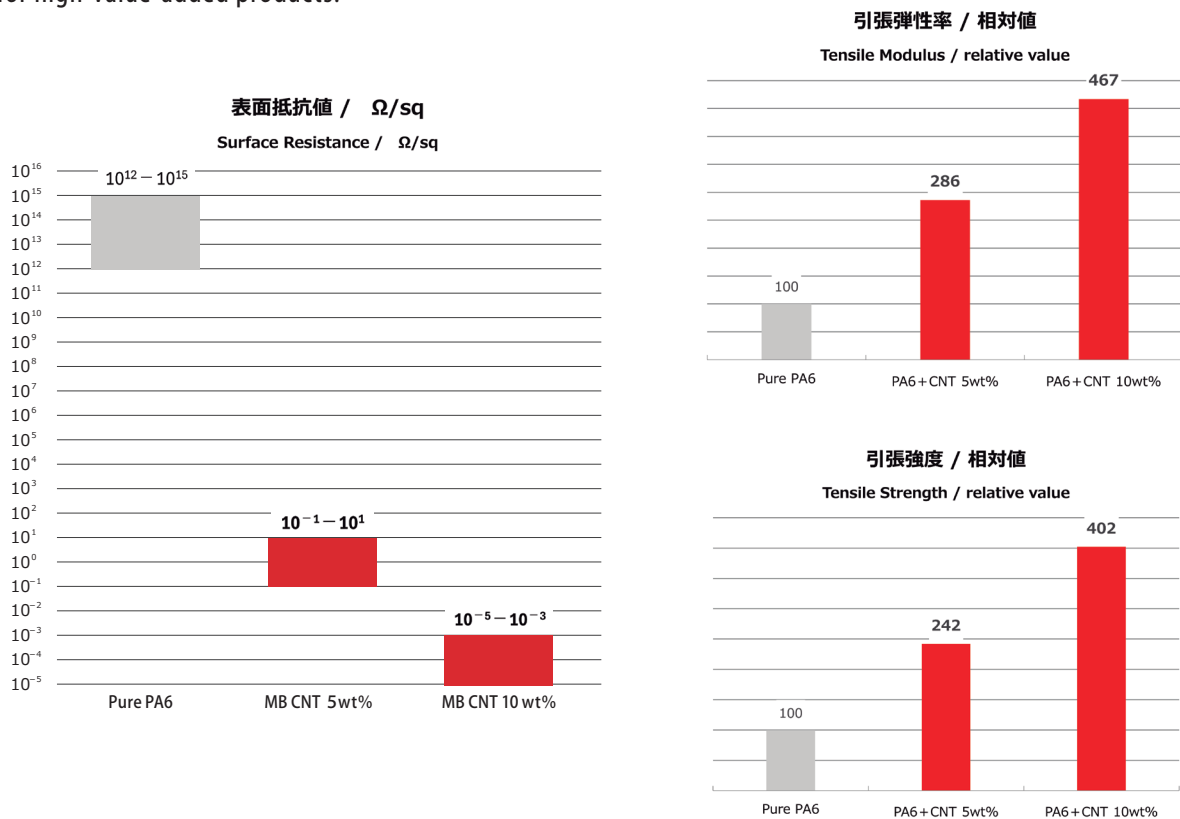


HIGH PERFORMANCE RESIN

高濃度 CNT 添加樹脂 性能比較 High concentration CNT composites resin Performance comparison

PA6 に CNT を高濃度に添加することが可能。従来、フィラーとしての CNT は 1~2 wt% の範囲で添加することが多いが、本技術では 10 wt% もの量を凝集なく均一に配合することが可能。強度や導電率が飛躍的に向上する高付加価値な製品向けの技術です。

This technology allows for the addition of high concentrations of CNTs to PA6. Conventionally, CNTs are often added as fillers in the range of 1-2 wt%, but with this technology, it is possible to mix as much as 10 wt% uniformly without clumping. This dramatically improves strength and electrical conductivity. This technology is for high-value-added products.



高濃度 CNT 添加樹脂の特長 Features of High concentration CNT composites resin

- ① PA6へCNTを、添加することで金属レベルの導電性を付与
By adding CNTs to PA6, it is possible to give it metal-level conductivity
- ② PA6樹脂と比べて、CNT添加樹脂は高剛性、高強度を実現
Compared to PA6 resin, CNT composites resin provides higher rigidity and strength
- ③ 希釈利用も可能で、CNT0.1 wt%の希釈でもPure PA6と比較して力学特性、導電性両方の性能を向上させることが可能
It can also be diluted, and even at a dilution of 0.1 wt % CNTs, it is possible to improve both mechanical properties and electrical conductivity compared to pure PA6

