



➤ APPLICATION BULLETIN

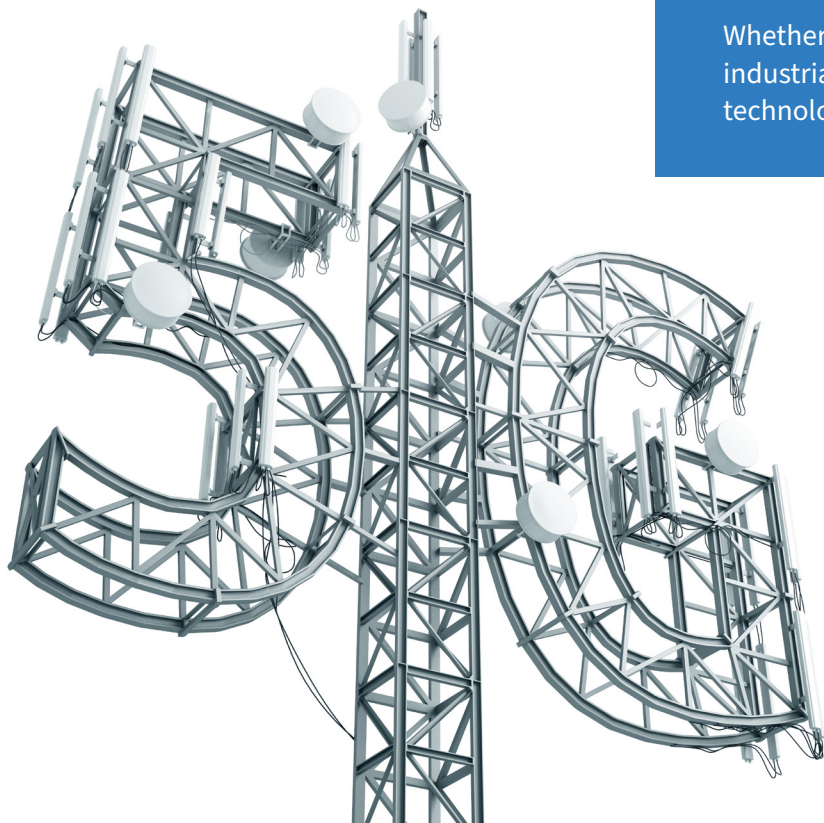
PREPERM™ Solutions for 5G

The increased demand for data capacity and low latency and the growing volume of connected devices require more base stations and higher frequencies. The PREPERM™ portfolio offers a wide variety of dielectric constants and is the right solution for high-class 5G applications. The dielectric measurement data up to 220 GHz indicates that the dielectric properties of PREPERM thermoplastics are stable and not dependent on the frequency. PREPERM solutions enable faster, safer and more reliable connections—in antennas, lenses, screws or other RF parts.

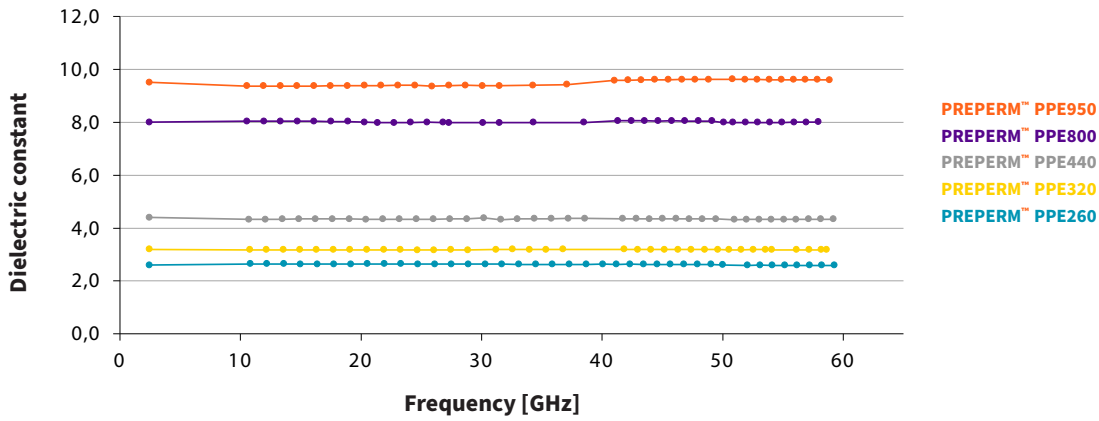
- Stable and controlled dielectric constant - from 2.6 to 23
- Very low losses even at mmWaves
- Isotropic material - no glass fibers
- Can be injection molded and machined

PREPERM materials are used in a wide range of industries

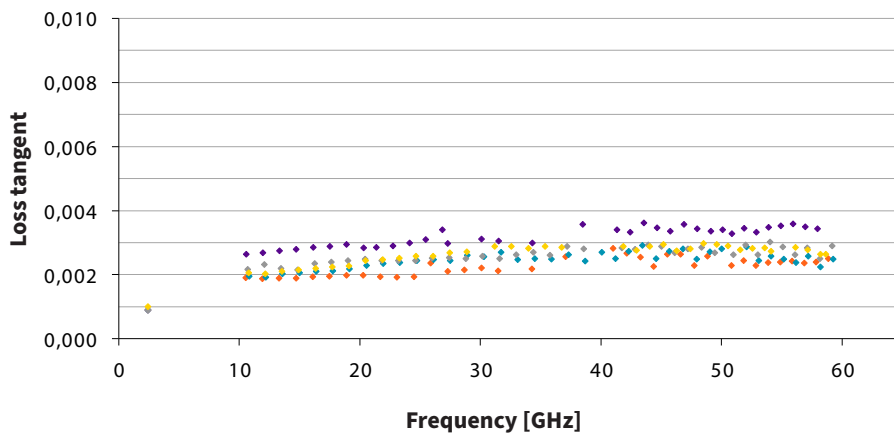
Whether you operate in the field of automotive or industrial radars, satellite communications or health technology, we have a solution for you.



STABLE RF PROPERTIES OVER A WIDE FREQUENCY RANGE

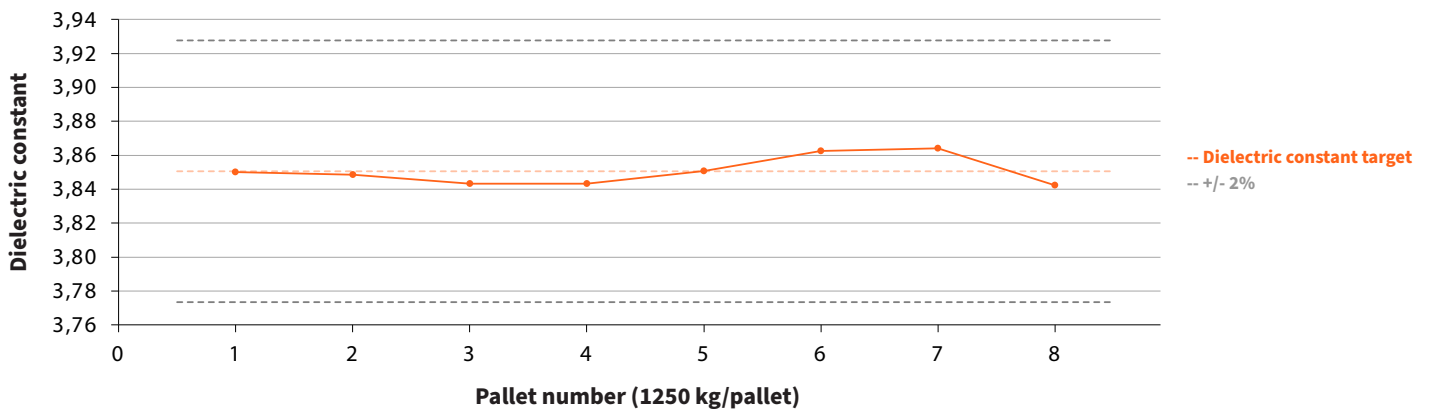


LOW LOSSES UP TO mmWAVE FREQUENCIES*



* Measurements performed at VTT Technical Research Centre of Finland Ltd in 2018.

BATCH-TO-BATCH STABILITY DURING PRODUCTION



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