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*

BATCH-TO-BATCH STABILITY DURING PRODUCTION

Copyright © 2022, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as “typical” or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient’s products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.