

In the dynamic telecommunications industry, 5G (fifth generation cellular network technology) is on the verge of being widely adopted, which will drive demand for 5G-optimized antennas as new infrastructures are rapidly deployed. Avient can provide materials compatible with the LDS (Laser Direct Structuring) process to achieve design flexibility and increased speed to market for base station antennas.

Edgetek[™] Formulations enable customers to achieve a selective metallization circuit design in a limited space. These materials increase design flexibility, particularly for 3D antenna designs and complex shapes. They are also compatible with SMT (Surface Mounting Technology) methods of circuit board production because they can be formulated with high heat resistance. In addition, our LDS materials can shorten lead times by supplying materials in just a few weeks to help increase speed to market.

EDGETEK™ PRODUCT PORTFOLIO

	ET9600-8010 LDS	ET3200-8177 LDS
Dielectric Constant (DK)	3.98	2.88
Dissipation Factor (Df)	0.0060	0.0040







HOW AVIENT EDGETEK FORMULATIONS MAKE THE DIFFERENCE FOR 5G BASE STATION ANTENNA APPLICATIONS

Increased Design Flexibility – Can increase design flexibility especially for circuit design, 3D antenna design, and complex shapes

Faster Design Qualification & Shorter Lead Time - Can be customized to specific Dk values and delivered within weeks

Flexible Design Space – Effective for circuit designs constrained by a limited space

Compatible with SMT Process - Can be customized to resist heat, with deflection temperatures ranging from 200°C to 278°C



www.avient.com



Copyright © 2020, 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.