

Technical Data Sheet

RapidTP PG290/60PTFE

Product

PG290/60PTFE is a two-sided PTFE coated glass fabric with long out life. The product is suitable for continuous use up to -70/60°C. PG290/60PTFE has a thermoplastic resin developed for high performance antennas operating in harsh environments. Low dielectric constant and loss combined with high mechanical strength deliver excellent RF performance for planar radomes.

Features

- **Heat performance up to -70/60°C.**
- **Long term service life**
- **Low loss and low dielectric constant suitable for wide span of frequencies.**
- **PTFE coated fiberglass is completely hydrophobic**
- **Excellent mechanical properties at ambient and elevated temperatures.**
- **Tailor made solution: can be made with one/two sides coating, variable aerial weight.**

STYLE	SI UNITS	
TYPE OF YARNS	<i>Warp Yarn</i>	EC9 136
	<i>Fill Yarn</i>	EC9 136
WEAVE STYLE	<i>plain</i>	
NOMINAL CONSTRUCTION	<i>Warp count</i>	7/cm
	<i>Weft count</i>	7 /cm
PREPREG	<i>Thickness</i>	450µm +/-25
	<i>Weight</i>	700 gsm +/-20
	<i>Type</i>	PTFE
TENSILE STRENGTH WARP	<i>Resin m.p</i>	327°C
	<i>N/20mm</i>	1700
TENSILE STRENGTH WEFT	<i>N/20mm</i>	1650
PROCESSING	<i>Temperature</i>	≥360°C
	<i>Pressure</i>	≥1bar
WATER ABSORPTION	<i>Less than 0.4%</i>	
DIELECTRIC CONSTANT	<i>Ka band</i>	2.9
LOSS TANGENT	<i>Ka band</i>	0.006

IMPORTANT

All information is believed to be accurate but is given without acceptance of liability. All values have been generated from limited data. The values listed for weight and thickness are typical greige values, unless otherwise noted. Processing guidelines can vary between users and applications and the data provided can serve as an initial starting point.

