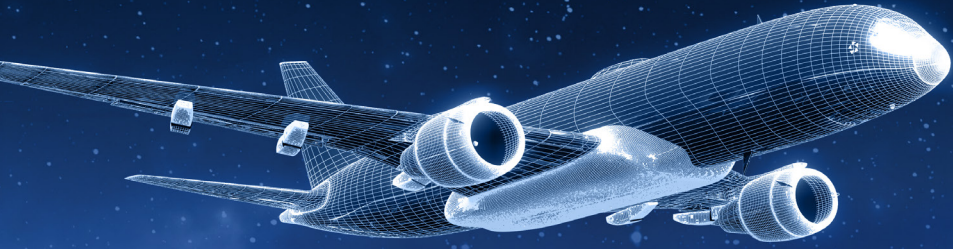


PEEK Performance Has Evolved

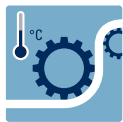
PRODUCT HIGHLIGHTS



INTRODUCING TENCATE CETEX® TC1225

Our new range of engineered PAEK composite materials, available in carbon-based UD tape, laminates, and semi preg formats, harnesses high performance mechanics with lower processing temperatures. Suitable for overmolding with PEEK, the PAEK composite materials from TenCate enable form freedom and part consolidation in the highest performance applications.

PRODUCT PROPERTIES



Processable at lower temperatures

Lower processing temperature (< 350°C) than PEEK



Enabling design freedom

Resulting in part consolidation and process optimization



Overmoldable

TenCate Cetex® TC1225 is overmoldable with PEEK resin

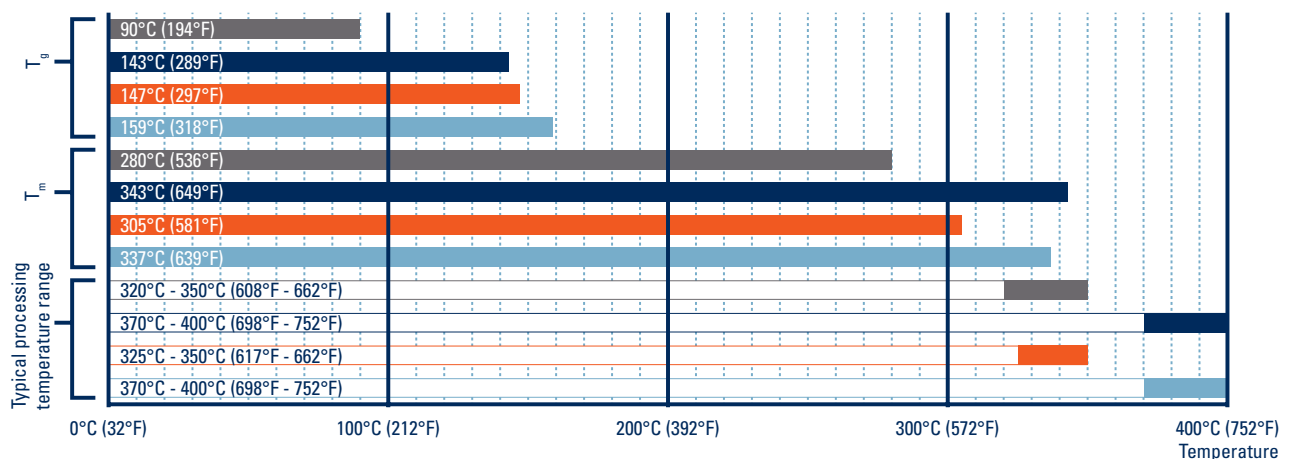


High performance

Excellent mechanical performance

GLASS TRANSITION, MELT TEMPERATURE, AND TYPICAL PROCESSING TEMPERATURES

- TenCate Cetex® TC1100 PPS
- TenCate Cetex® TC1225 engineered PAEK
- TenCate Cetex® TC1200 PEEK
- TenCate Cetex® TC1320 PEKK



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Cetex®

Leading the way in thermoplastic composites for over 25 years, TenCate Cetex® is the material of choice for the aerospace industry. With over a million parts in flight, the aerospace industry uses TenCate Cetex® composites for applications ranging from structural components, such as wing leading edges, engine pylon structures, cargo flooring, acoustic structures, to interior galleys and seats.

PROPERTIES OF TENCATE CETEX® THERMOPLASTIC COMPOSITES:

- › Rapid assembly
- › Short cycle times
- › Weldability
- › Recyclability
- › No freezer storage
- › Chemical resistant
- › Excellent FST properties

TenCate Cetex® offers outstanding mechanical properties, is durable, strong, and lightweight, and is qualified to major aircraft manufacturers' specifications

KEY PROCESSING TECHNOLOGIES FOR PROVEN AND RELIABLE VOLUME PART MANUFACTURING:

- › Compression molding/thermoforming
- › Overmolding
- › Advanced tape placement (ATP)

PRODUCT	RESIN	T _g	PROCESSING TEMPERATURE	PRODUCT FORMAT			KEY PRODUCT CHARACTERISTICS
				UD TAPES	LAMINATES (RTL)	WOVEN PREPREG	
SEMI-CRYSTALLINE							
TC1320 NEW	PEKK	159°C (318°F)	371°C (700°F)	○			<ul style="list-style-type: none"> › Outstanding solvent and impact resistance › Very high CAI properties 337 MPa (48.9 ksi) › Lower processing temperature material than PEEK
TC1225 NEW	Engineered PAEK	147°C (296°F)	325–350°C (615–662°F)	○	○	○	<ul style="list-style-type: none"> › Processable at lower temperatures than PEEK › Excellent mechanical properties › Overmoldable with PEEK resin
TC1220	PEEK	143°C (289°F)	385°C (725°F)	○			<ul style="list-style-type: none"> › Outstanding CAI strength: 345 MPa (50 ksi) › Low moisture absorption for good hot/wet strength retention
TC1200	PEEK	143°C (289°F)	385°C (725°F)	○	○	○	<ul style="list-style-type: none"> › Excellent mechanical properties › Outstanding solvent resistance › Low flammability
TC1100	PPS	90°C (194°F)	320°C (608°F)		○	○	<ul style="list-style-type: none"> › High impact resistance › Low moisture absorption of 0.02% › Ideal for leading edges, structural aircraft parts including interior beams and floor pan
AMORPHOUS							
TC1000 Premium	PEI	215°C (419°F)	315°C (600°F)		○	○	<ul style="list-style-type: none"> › Qualified and certified to OEM specifications › Industry leading mechanical performance › Excellent FST performance (OSU <15/15)
TC1000 Design	PEI	215°C (419°F)	315°C (600°F)		○	○	<ul style="list-style-type: none"> › Good impact toughness › Excellent FST (OSU <15/15)
TC925 FST NEW	PC	153°C (307°F)	260°C (500°F)		○	○	<ul style="list-style-type: none"> › Translucent laminate provides good chemical performance › Good FST performance (OSU <25/25) › Ideal for flooring, seating, and small parts

TenCate Cetex® is also available in industrial grade resins, from PA6 through to PC/ABS

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