

Complet® LCF20/LGF20 - TPU

TPU-(CF+GF)

PlastiComp, Inc.

Product Texts

long fiber reinforced

Mechanical properties

	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	19310	MPa	ASTM D 638
Tensile Strength	248	MPa	ASTM D 638
Elongation at Yield	1.5	%	ASTM D 638
Flexural Modulus	15860	MPa	ASTM D 790
Flexural Strength	359	MPa	ASTM D 790
Izod Impact notched, 1/8 in	374	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	988	J/m	ASTM D 256

Thermal properties

	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	93.3	°C	ASTM D 648

Other properties

	Value	Unit	Test Standard
Density	1440	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding

	Value	Unit	Test Standard
Pre-drying - Temperature	88	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	216 - 238	°C	-
Mold temperature	88	°C	-
Zone 1	204 - 227	°C	-
Zone 2	210 - 232	°C	-
Zone 3	216 - 238	°C	-
Nozzle temperature	211 - 243	°C	-
Screw speed	30 - 50	rpm	-
Injection speed	51 - 76	mm/s	-
Back pressure	0.17 - 0.35	MPa	-

Characteristics**Processing**

Injection Molding

Features

Long fiber reinforced

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific