



## InLube® LCPTF20

**PRODUCT DESCRIPTION** 20% PTFE LUBRICATED, LIQUID CRYSTAL POLYMER (LCP)

**MATERIAL STATUS** Commercial: Active

**AVAILABILITY** Africa & Middle East, Asia Pacific, Europe, Latin America, North America

**ADDITIVE** PTFE Lubricant: 20%

**FEATURES** Chemical Resistant, Good Mold Release, Low Friction, Lubricated, Wear Resistant

**USES** Aerospace Applications, Battery Cases, Connectors, Electrical/Electronic Applications, Engineering Parts, Industrial Applications, Metal Replacement, Military/Defense Applications, Semiconductor Applications

**FORMS** Pellets

**PROCESSING METHOD** Injection Molding

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.49	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.0 to 0.10	%	ASTM D955
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Modulus	11700	MPa	ASTM D638
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 to 1.5	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	121	MPa	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (3.18 mm)	85	J/m	ASTM D256
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 1.8 MPa, Unannealed	254	°C	ASTM D648
INJECTION	NOMINAL VALUE	UNIT	
Drying Temperature	149	°C	
Drying Time	6.0 to 8.0	hr	
Suggested Max Moisture	0.010	%	
Processing (Melt) Temp	335 to 360	°C	
Mold Temperature	93 to 163	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	

### NOTES

<sup>1</sup> Typical properties: these are not to be construed as specifications.

