

**InLube® PEEKTF10HF**

Americhem - Polyetheretherketone

**General Information**
**Product Description**

10% PTFE LUBRICATED HIGH FLOW PEEK

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• PTFE Lubricant: 10%		
Features	• Chemical Resistant • Good Mold Release	• High Flow • Low Friction	• Lubricated • Wear Resistant
Uses	• Aerospace Applications • Connectors • Electrical/Electronic Applications • Engineering Parts	• Industrial Applications • Industrial Parts • Metal Replacement • Military/Defense Applications	• Oil/Gas Applications • Outdoor Applications • Semiconductor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.35		ASTM D792
Molding Shrinkage - Flow	0.016 to 0.019	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	550000	psi	ASTM D638
Tensile Strength	13400	psi	ASTM D638
Tensile Elongation (Yield)	5.0 to 7.0	%	ASTM D638
Flexural Modulus	521000	psi	ASTM D790
Flexural Strength	19500	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (0.125 in)	2.0	ft·lb/in	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (264 psi, Unannealed)	315	°F	ASTM D648

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	660 to 740	°F
Mold Temperature	350 to 400	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	1.5E-3 to 3.0E-3	in

