

InLube® PBTTF15FR
Americhem - Polybutylene Terephthalate
General Information
Product Description

15% PTFE LUBRICATED FLAME RETARDANT PBT

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant • PTFE Lubricant: 15%		
Features	• Chemical Resistant • Flame Retardant • Good Mold Release	• Halogenated • Low Friction • Lubricated	• Wear Resistant
Uses	• Automotive Applications • Battery Cases • Connectors • Consumer Applications	• Electrical/Electronic Applications • Engineering Parts • Household Goods • Industrial Applications	• Industrial Parts • Semiconductor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.45		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.030	in/in	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical			
Tensile Strength	6400	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	365000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	0.60	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	180	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+17	ohms	
Flammability			
Flame Rating (0.13 in)	V-0		UL 94

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	230	°F
Drying Time	4.0	hr
Processing (Melt) Temp	430 to 500	°F
Mold Temperature	225	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

