

HiFill® PPSU TL10

Polyphenylsulfone
Techmer Engineered Solutions

Message:

HiFill® PPSU TL10 is a Polyphenylsulfone (PPSU) product. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
Lubricated

General Information			
Additive	PTFE Lubricant		
Features	Lubricated		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (24 hr)	1.1	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	63.4	MPa	ASTM D638
Tensile Elongation (Yield)	7.0	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	84.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	480	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	207	°C	ASTM D648
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength ¹	19	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	160	°C	
Drying Time	3.0	hr	
Rear Temperature	357 to 391	°C	
Middle Temperature	357 to 391	°C	

Front Temperature	357 to 391	°C
Processing (Melt) Temp	343 to 399	°C
Mold Temperature	110 to 149	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	50 to 100	rpm

NOTE

1. Method A (Short-Time)

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Recommended distributors for this material

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