

HiFill® PPS 0199 TC-1

Polyphenylene Sulfide
Techmer Engineered Solutions

Message:

HiFill® PPS 0199 TC-1 is a Polyphenylene Sulfide (PPS) product. It can be processed by injection molding and is available in North America. Typical application: Food Contact Applications. Primary characteristic: flame rated.

General Information			
Features	High Density		
	Low Extractables		
Agency Ratings	FDA Unspecified Rating		
Appearance	Colors Available		
	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.99	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	110	MPa	ASTM D638
Tensile Elongation (Break)	1.4	%	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	288	°C	
1.8 MPa, Unannealed	277	°C	
CLTE - Flow	1.8E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	1.5	W/m/K	ASTM C177
RTI Elec (1.50 mm)	220	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength ¹	21	kV/mm	ASTM D149

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.400 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	163	°C	
Drying Time	4.0	hr	
Rear Temperature	288 to 304	°C	
Middle Temperature	316 to 343	°C	
Front Temperature	310 to 332	°C	
Nozzle Temperature	316 to 332	°C	
Processing (Melt) Temp	324 to 338	°C	
Mold Temperature	129 to 163	°C	
NOTE			

1. Method A (Short-Time)

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