Wednesday, May 13, 2026

Electrafil® PSU 1701 3DP

Techmer Polymer Modifiers - *Polysulfone*

Units SI

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Features	• Electrically Conductive
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• 3D Printing, Fused Filament Fabrication (FFF)

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.39	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	15200	MPa	ASTM D638
Tensile Strength (Yield)	138	MPa	ASTM D638
Tensile Elongation (Break)	1.2	%	ASTM D638
Flexural Modulus	15200	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	64	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	187	°C	ISO 75-2/B
Deflection Temperature Under Load (1.8 MPa, Unannealed)	182	°C	ISO 75-2/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	2.0 to 5.0	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	132	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	< 0.040	%
Rear Temperature	282 to 288	°C
Middle Temperature	304 to 327	°C
Front Temperature	343 to 360	°C
Nozzle Temperature	349 to 371	°C
Processing (Melt) Temp	349 to 366	°C

Injection Notes

If material is to remain in dryer for more than 6 hours in dried state, reduce dryer temperature to 140°F to prevent degradation of material.

Notes

[1] Typical properties: these are not to be construed as specifications.

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