



SUPEC® G401
Americas: COMMERCIAL

Product administrator approval required for new applications. 40% GR polyphenylenesulfide. High strength, excellent chemical resistance, virtually solvent proof. HDT >500F (>260C).

Table with 4 columns: TYPICAL PROPERTIES 1, TYPICAL VALUE, UNIT, STANDARD. Rows include MECHANICAL (Tensile Stress, Strain, Modulus, Flexural Stress, Modulus, Hardness, Taber Abrasion, Friction), IMPACT (Izod Impact), THERMAL (HDT, CTE, Relative Temp Index), PHYSICAL (Specific Gravity, Water Absorption, Mold Shrinkage, Melt Flow Rate), and ELECTRICAL (Volume Resistivity, Relative Permittivity, Dissipation Factor, Arc Resistance, Hot Wire Ignition).

1) Typical values only. Variations within normal tolerances are possible for various colours. All values are measured at least after 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume rate are measured on injection moulded samples. All samples are prepared according to ISO 294.

2) Only typical data for material selection purpose. Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
4) Own measurement according to UL.

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
High Voltage Arc Track Rate {PLC}	0	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	4	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	3	PLC Code	UL 746A
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	0.031	in	UL 94
UL Recognized, 94-5VA Rating (3)	0.062	in	UL 94
CSA (See File for complete listing)	LS88480	File No.	CSA LISTED
Oxygen Index (LOI)	47	%	ASTM D 2863

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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	290	°F
Drying Time	3 - 4	hrs
Maximum Moisture Content	0.04	%
Melt Temperature	580 - 630	°F
Nozzle Temperature	580 - 610	°F
Front - Zone 3 Temperature	600 - 630	°F
Middle - Zone 2 Temperature	580 - 600	°F
Rear - Zone 1 Temperature	550 - 580	°F
Mold Temperature	280 - 320	°F
Back Pressure	50	psi

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