

Witcom PPS/8G/3L1

(PPS+PTFE)-GF40

Wittenburg B.V.

Product Texts

15% PTFE

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Strength	160	MPa	ISO 527
Strain at break	1.5	%	ISO 527
Flexural modulus, 23°C	13000	MPa	ISO 178
Flexural strength	215	MPa	ISO 178
Izod impact strength, +23°C	40	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	8.5	kJ/m ²	ISO 180/1A

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	260	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	26	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	1.6	mm	-
Glow Wire Ignition Temperature (GWIT)	960	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1.6	mm	-

Electrical properties

	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	125	-	IEC 60112
ASTM Data			
Surface Resistivity	1E14	Ohm	ASTM D 257

Other properties

	Value	Unit	Test Standard
Water absorption	0.03	%	Sim. to ISO 62
Humidity absorption	0.02	%	Sim. to ISO 62
Density	1770	kg/m ³	ISO 1183

Processing Recommendation Injection Molding

	Value	Unit	Test Standard
Pre-drying - Temperature	150 - 160	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.04	%	-
Melt temperature	305 - 345	°C	-
Mold temperature	140 - 160	°C	-
Back pressure	0 - 1	MPa	-

Characteristics**Processing**

Injection Molding

Additives

Lubricants

Regional Availability

Europe