

**XYRON™ G711V**

Asahi Kasei Corporation - Polyphenylene Ether + PS

## General Information

**Product Description**

 Modified PPE  
 10% Filler reinforced Flame retardant V-1

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS-GF10FR(40)<

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup> (0.0787 in)	0.50	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	12800	psi	ISO 527
Tensile Strain (Break, 73°F)	3.0	%	ISO 527
Flexural Modulus (73°F)	667000	psi	ISO 178
Flexural Stress (73°F)	20000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength <sup>3</sup> (73°F)	3.3	ft·lb/in <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	266	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	2.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	3.6E-5	in/in/°F	ISO 11359-2
Heat Deflection Temperature - (1.8MPa, Unannealed)	130	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (73°F)	1.0E+16	ohms·cm	IEC 60093
Dielectric Constant (5.20 GHz)	2.80		SPDR
Dielectric Constant			IEC 60250
100 Hz	3.00		
1 MHz	3.00		
Dissipation Factor (5.20 GHz)	4.0E-3		SPDR
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		
1 MHz	3.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in	V-1		
0.09 in	5VA		

## Processing Information

Injection

Nominal Value Unit



Drying Temperature - Hot Air Dryer	194 to 212 °F
Drying Time - Hot Air Dryer	2.0 to 4.0 hr
Processing (Melt) Temp	500 to 572 °F
Mold Temperature	140 to 212 °F

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 150x150x2 mm

<sup>3</sup> 4 mm

