

**XYRON™ G712V**

Asahi Kasei Corporation - Polyphenylene Ether + PS

**General Information**
**Product Description**

 Modified PPE  
 20% Filler reinforced Flame retardant V-1

**General**

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> <li>Europe</li> <li>North America</li> </ul>
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Glass Fiber, 20% Filler by Weight</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Flame Retardant</li> </ul>
Features	<ul style="list-style-type: none"> <li>Flame Retardant</li> <li>Halogen Free</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>
Part Marking Code (ISO 11469)	<ul style="list-style-type: none"> <li>&gt;PPE+PS-GF20FR(40)&lt;</li> </ul>

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup> (0.0787 in)	0.27 to 0.56	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	16400	psi	ISO 527
Tensile Strain (Break, 73°F)	2.0	%	ISO 527
Flexural Modulus (73°F)	972000	psi	ISO 178
Flexural Stress (73°F)	23500	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength <sup>3</sup> (73°F)	3.8	ft·lb/in <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	277	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	1.4E-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)	140	°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)	3.00		SPDR
Dielectric Constant			IEC 60250
100 Hz	3.20		
1 MHz	3.20		
Dissipation Factor (5.20 GHz)	4.0E-3		SPDR
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	5.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.030 in)	V-1		UL 94

**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

