

## XYRON™ G701V

Asahi Kasei Corporation - Polyphenylene Ether + PS

### General Information

#### Product Description

Modified PPE  
10% Filler reinforced Flame retardant V-1

#### General

|                                          |                                     |
|------------------------------------------|-------------------------------------|
| Filler / Reinforcement                   | • Glass Fiber, 10% Filler by Weight |
| Additive                                 | • Flame Retardant                   |
| Features                                 | • Flame Retardant                   |
| Processing Method                        | • Injection Molding                 |
| Part Marking Code (ISO11469) (ISO 11469) | • >PPE+PS-GF10FR(40)<               |

### ASTM & ISO 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> (2.00 mm)                 | 0.50          | %                 | Internal Method |
| Water Absorption (24 hr, 23°C)                           | 0.060         | %                 | ISO 62          |
| Mechanical                                               | Nominal Value | Unit              | Test Method     |
| Tensile Stress (Yield, 23°C)                             | 88.0          | MPa               | ISO 527         |
| Tensile Strain (Break, 23°C)                             | 3.0           | %                 | ISO 527         |
| Flexural Modulus (23°C)                                  | 4600          | MPa               | ISO 178         |
| Flexural Stress (23°C)                                   | 138           | MPa               | ISO 178         |
| Impact                                                   | Nominal Value | Unit              | Test Method     |
| Charpy Notched Impact Strength <sup>3</sup> (23°C)       | 7.0           | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                                  | Nominal Value | Unit              | Test Method     |
| Deflection Temperature Under Load<br>1.8 MPa, Unannealed | 130           | °C                | ISO 75-2/A      |
| CLTE                                                     |               |                   | ISO 11359-2     |
| Flow : -30 to 65°C                                       | 3.7E-5        | cm/cm/°C          |                 |
| Transverse : -30 to 65°C                                 | 6.5E-5        | cm/cm/°C          |                 |
| Heat Deflection Temperature - (1.8MPa, Unannealed)       | 130           | °C                | ASTM D648       |



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| Electrical                | Nominal Value | Unit    | Test Method |
|---------------------------|---------------|---------|-------------|
| Surface Resistivity       | 1.0E+16       | ohms    | IEC 60093   |
| Volume Resistivity (23°C) | 1.0E+16       | ohms·cm | IEC 60093   |
| Dielectric Constant       |               |         | IEC 60250   |
| 100 Hz                    | 3.00          |         |             |
| 1 MHz                     | 3.00          |         |             |
| Dissipation Factor        |               |         | IEC 60250   |
| 100 Hz                    | 2.0E-3        |         |             |
| 1 MHz                     | 3.0E-3        |         |             |
| Flammability              | Nominal Value | Unit    | Test Method |
| Flame Rating              |               |         | UL 94       |
| 0.75 mm                   | V-1           |         |             |
| 2.4 mm                    | 5VA           |         |             |

### Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 90 to 100     | °C   |
| Drying Time            | 2.0 to 4.0    | hr   |
| Processing (Melt) Temp | 260 to 300    | °C   |
| Mold Temperature       | 60 to 100     | °C   |

### Notes

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

<sup>2</sup> 150x150x2 mm

<sup>3</sup> 4 mm

