

# XYRON™ X551V

Polyphenylene Ether + PS  
Asahi Kasei Chemicals Corporation

Message:

Modified PPE  
10% Filler reinforced Flame retardant V-0  
Appearance Good, Warpage Low

| General Information                                |                              |                   |                 |
|----------------------------------------------------|------------------------------|-------------------|-----------------|
| Filler / Reinforcement                             | Filler, 10% Filler by Weight |                   |                 |
| Additive                                           | Flame Retardant              |                   |                 |
| Features                                           | Flame Retardant              |                   |                 |
|                                                    | Low Warpage                  |                   |                 |
|                                                    | Pleasing Surface Appearance  |                   |                 |
| Processing Method                                  | Injection Molding            |                   |                 |
| Physical                                           | Nominal Value                | Unit              | Test Method     |
| Density                                            | 1.15                         | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage <sup>1</sup> (2.00 mm)           | 0.40 to 0.55                 | %                 | Internal Method |
| Water Absorption (23°C, 24 hr)                     | 0.060                        | %                 | ISO 62          |
| Mechanical                                         | Nominal Value                | Unit              | Test Method     |
| Tensile Stress (Yield, 23°C)                       | 54.0                         | MPa               | ISO 527-2       |
| Tensile Strain (Break, 23°C)                       | 5.0                          | %                 | ISO 527-2       |
| Flexural Modulus (23°C)                            | 3900                         | MPa               | ISO 178         |
| Flexural Stress (23°C)                             | 110                          | MPa               | ISO 178         |
| Impact                                             | Nominal Value                | Unit              | Test Method     |
| Charpy Notched Impact Strength <sup>2</sup> (23°C) | 4.0                          | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                            | Nominal Value                | Unit              | Test Method     |
| Deflection Temperature Under Load                  |                              |                   |                 |
| 1.8 MPa, Unannealed                                | 120                          | °C                | ASTM D648       |
| 1.8 MPa, Unannealed                                | 118                          | °C                | ISO 75-2/A      |
| CLTE - Flow (-30 to 65°C)                          | 6.0E-5                       | cm/cm/°C          | ISO 11359-2     |
| 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                                             | 3.10                         |                   |                 |
| 1 MHz                                              | 3.00                         |                   |                 |
| Dissipation Factor                                 |                              |                   | IEC 60250       |
| 100 Hz                                             | 3.0E-3                       |                   |                 |
| 1 MHz                                              | 5.0E-3                       |                   |                 |

| Flammability           | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|-------------|
| Flame Rating (1.50 mm) | V-1           |      | UL 94       |
| Injection              | Nominal Value | Unit |             |
| Drying Temperature     | 100 to 110    | °C   |             |
| Drying Time            | 3.0 to 4.0    | hr   |             |
| Processing (Melt) Temp | 250 to 300    | °C   |             |
| Mold Temperature       | 70.0 to 90.0  | °C   |             |
| NOTE                   |               |      |             |
| 1.                     | 150x150x2 mm  |      |             |
| 2.                     | 4 mm          |      |             |

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