

**XYRON™ X531V**

Asahi Kasei Corporation - Polyphenylene Ether + PS

**General Information**

Product Description	
Modified PPE 10% Filler reinforced Flame retardant V-1 Stiffness High, Warpage Low	
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)	0.30 to 0.55	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	10300	psi	ISO 527
Tensile Strain (Break, 73°F)	2.0	%	ISO 527
Flexural Modulus (73°F)	522000	psi	ISO 178
Flexural Stress (73°F)	17300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength <sup>3</sup> (73°F)	2.4	ft·lb/in <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	244	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	3.3E-5	in/in/°F	ISO 11359-2
Heat Deflection Temperature - (1.8MPa, Unannealed)	248	°F	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			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 (0.06 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	482 to 572	°F
Mold Temperature	158 to 194	°F



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## Notes

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

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<sup>2</sup> 150x150x2 mm

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<sup>3</sup> 4 mm

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