

**XYRON™ C443V**

Asahi Kasei Corporation - Polyphenylene Ether + PS

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

Modified PPE  
 30% Filler reinforced Flame retardant V-1  
 Electrically Conductive, Stiffness High, Warpage Low

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Glass Fiber\Carbon Fiber, 30% Filler by Weight
Features	• Electrically Conductive • Halogen Free • Flame Retardant • Low Warpage
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS-(GF+CF)30FR(40)<

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

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup> (0.0787 in)	0.10 to 0.40	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	10600	psi	ISO 527
Tensile Strain (Break, 73°F)	1.0	%	ISO 527
Flexural Modulus (73°F)	1.74E+6	psi	ISO 178
Flexural Stress (73°F)	17000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength <sup>3</sup> (73°F)	1.9	ft·lb/in <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	230	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	7.8E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	2.9E-5	in/in/°F	ISO 11359-2
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	140 to 194	°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
