

**XYRON™ VN30V**

Asahi Kasei Corporation - Polyphenylene Ether + PS

## General Information

**Product Description**

 Modified PPE  
 Unreinforced Flame retardant V-1  
 Acoustic Damping  
 Loss factor 6.6

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	
	• Asia Pacific	• North America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• Halogen Free	• Noise Damping
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >PPE+PS-FR(40)<		

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup> (0.0787 in)	0.50 to 0.60	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	6530	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	24	%	ISO 527
Flexural Modulus (73°F)	276000	psi	ISO 178
Flexural Stress (73°F)	10700	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)	205	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	3.6E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	4.1E-5	in/in/°F	ISO 11359-2
Heat Deflection Temperature - (1.8MPa, Unannealed)	100	°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)	2.60		SPDR
Dissipation Factor (5.20 GHz)	3.0E-3		SPDR
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 554	°F
Mold Temperature	122 to 176	°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
