

XYRON™ CN51V

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description		
Modified PPE		
Non-Reinforced Flame retardant V-1		
Semi Transparent Grade		
General		
Additive	• Flame Retardant	
Features AKEP website	• Flame Retardant	• Transparent
	• Halogen Free	• Weldable, Laser
Processing Method	• Injection Molding	
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-FR(40)<	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	66.0	MPa	ISO 527
Nominal Tensile Strain at Break (23°C)	15	%	ISO 527
Flexural Modulus (23°C)	2400	MPa	ISO 178
Flexural Stress (23°C)	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	28	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	111	°C	
CLTE			ISO 11359-2
Flow : -30 to 65°C	7.3E-5	cm/cm/°C	
Transverse : -30 to 65°C	8.1E-5	cm/cm/°C	



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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
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	V-1		UL 94

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature - Hot Air Dryer	90 to 100	°C	
Drying Time - Hot Air Dryer	2.0 to 4.0	hr	
Processing (Melt) Temp	240 to 290	°C	
Mold Temperature	50 to 80	°C	

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 150x150x2 mm
- ³ 4 mm

