

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

Filler / Reinforcement	• Glass Fiber\Carbon Fiber, 30% Filler by Weight
Features AKEP website	• Electrically Conductive • Halogen Free • Flame Retardant • Warpage, Low
Processing Method	• Injection Molding
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-(GF+CF)30FR(40)<

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.10 to 0.40	%	Internal Method
Water Absorption (24 hr, 23°C)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	73.0	MPa	ISO 527
Tensile Strain (Break, 23°C)	1.0	%	ISO 527
Flexural Modulus (23°C)	12000	MPa	ISO 178
Flexural Stress (23°C)	117	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	4.0	kJ/m ²	ISO 179



XYRON™ C443V
Asahi Kasei Corporation - Polyphenylene Ether + PS

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	110	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow : -30 to 65°C	1.4E-5	cm/cm/°C	
Transverse : -30 to 65°C	5.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+2 to 1.0E+3	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 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	250 to 300	°C	
Mold Temperature	60 to 90	°C	

Notes

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

