

XYRON™ X444V

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description			
Modified PPE			
35% Filler reinforced Flame retardant V-1			
Stiffness High, Warpage Low			
General			
Filler / Reinforcement	• Glass Fiber\Mineral, 35% Filler by Weight		
Additive	• Flame Retardant		
Features AKEP website	• Flame Retardant	• Halogen Free	• Warpage, Low
Processing Method	• Injection Molding		
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-(GF+PS)35FR(40)<		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.13 to 0.24	%	Internal Method
Water Absorption (24 hr, 23°C)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	88.0	MPa	ISO 527
Tensile Strain (Break, 23°C)	2.0	%	ISO 527
Flexural Modulus (23°C)	9900	MPa	ISO 178
Flexural Stress (23°C)	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	6.0	kJ/m ²	ISO 179



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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	116	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow : -30 to 65°C	2.7E-5	cm/cm/°C	
Transverse : -30 to 65°C	5.6E-5	cm/cm/°C	
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 (1.4 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	70 to 90	°C	

Notes

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

