

XYRON™ 1951J

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description

Modified PPE
Unreinforced Flame retardant V-1
Easy flow

General

Additive	• Flame Retardant	
Features AKEP website	• Flame Retardant	• Halogen Free
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	1.11	g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.60 to 0.70	%	Internal Method
Water Absorption (24 hr, 23°C)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	43.0	MPa	ISO 527
Nominal Tensile Strain at Break (23°C)	24	%	ISO 527
Flexural Modulus (23°C)	2300	MPa	ISO 178
Flexural Stress (23°C)	68.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	13	kJ/m ²	ISO 179



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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	70.0	°C	
CLTE			ISO 11359-2
Flow : -30 to 65°C	7.4E-5	cm/cm/°C	
Transverse : -30 to 65°C	8.1E-5	cm/cm/°C	
Heat Deflection Temperature - (1.8 MPa, Unannealed)	76	°C	ASTM D648
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
Dielectric Constant			IEC 60250
100 Hz	2.90		
1 MHz	2.90		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	4.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.0 mm)	• •	V-1 5VB	UL 94

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature - Hot Air Dryer	70 to 80	°C	
Drying Time - Hot Air Dryer	2.0 to 4.0	hr	
Processing (Melt) Temp	220 to 280	°C	
Mold Temperature	40 to 70	°C	

Notes

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

