

XYRON™ 1951J

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information
Product Description

 Modified PPE
 Unreinforced Flame retardant V-1
 Easy flow

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183
Molding Shrinkage ² (0.0787 in)	0.60 to 0.70	%	Internal Method
Water Absorption (24 hr, 73°F)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	6240	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	24	%	ISO 527
Flexural Modulus (73°F)	334000	psi	ISO 178
Flexural Stress (73°F)	9860	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (73°F)	6.2	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	158	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	4.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	4.5E-5	in/in/°F	ISO 11359-2
Heat Deflection Temperature - (1.8 MPa, Unannealed)	169	°F	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)	2.70		SPDR
Dielectric Constant			IEC 60250
100 Hz	2.90		
1 MHz	2.90		
Dissipation Factor (5.20 GHz)	4.0E-3		SPDR
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	4.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.08 in)	• V-1 • 5VB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	158 to 176	°F



Drying Time - Hot Air Dryer	2.0 to 4.0 hr
Processing (Melt) Temp	428 to 536 °F
Mold Temperature	104 to 158 °F

Notes

¹ Typical properties: these are not to be construed as specifications.

² 150x150x2 mm

³ 4 mm

