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AsahiKASEI

XYRON™ G711V

Asahi Kasei Corporation - Polyphenylene Ether + PS

Thursday, January 9, 2025

General Information

Product Description		
Modified PPE 10% Filler reinforced Flame retardant V-1		
General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight	
Additive	• Flame Retardant	
Features AKEP website	• Flame Retardant	• Halogen Free
Processing Method	• Injection Molding	
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-GF10FR(40)<	
Other Documentation		
Literature	• Molding Conditions • SDS • Technical Handbook	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm³	ISO 1183
Molding Shrinkage [2] (2.00 mm)	0.50	%	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)	3.0	%	ISO 527
Flexural Modulus (23°C)	4600	MPa	ISO 178
Flexural Stress (23°C)	138	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (23°C)	7.0	kJ/m²	ISO 179

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	130	°C	
CLTE			ISO 11359-2
Flow : -30 to 65°C	3.7E-5	cm/cm/°C	
Transverse : -30 to 65°C	6.5E-5	cm/cm/°C	
Heat Deflection Temperature - (1.8MPa, Unannealed)	130	°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			
5.20 GHz	2.80		SPDR
100 Hz	3.00		IEC 60250
1 MHz	3.00		IEC 60250
Dissipation Factor			
5.20 GHz	4.0E-3		SPDR
100 Hz	2.0E-3		IEC 60250
1 MHz	3.0E-3		IEC 60250
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.75 mm	V-1		
2.4 mm	5VA		

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	260 to 300	°C
Mold Temperature	60 to 100	°C

Notes

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

[2] 150x150x2 mm

[3] 4 mm