

XYRON™ G701H

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description

Modified PPE

10% Filler reinforced non-Flame retardant

General

Filler / Reinforcement • Glass Fiber, 10% Filler by Weight

Processing Method • Injection Molding

Part Marking Code (ISO11469) (ISO 11469) • >PPE+PS-GF10<

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.50 to 0.55	%	Internal Method
Water Absorption (24 hr, 23°C)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	74.0	MPa	ISO 527
Tensile Strain (Break, 23°C)	3.0	%	ISO 527
Flexural Modulus (23°C)	4300	MPa	ISO 178
Flexural Stress (23°C)	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	10	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	124	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow : -30 to 65°C	4.1E-5	cm/cm/°C	
Transverse : -30 to 65°C	7.3E-5	cm/cm/°C	
Heat Deflection Temperature - (1.8MPa, Unannealed)	130	°C	ASTM D648



XYRON™ G701H

Asahi Kasei Corporation - Polyphenylene Ether + PS

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	4.0E-4		
1 MHz	8.0E-4		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	HB		UL 94

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature	90 to 100	°C	
Drying Time	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

