AsahiKASEI

XYRON™ G702H

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description	
Modified PPE 20% Filler reinforced Non-Flame retardant	
General	
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Processing Method	• Injection Molding
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-GF20<

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm³	ISO 1183
Molding Shrinkage [2] (2.00 mm)	0.26 to 0.54	%	Internal Method
Water Absorption (24 hr, 23°C)	0.060	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 23°C)	105	MPa	ISO 527
Tensile Strain (Break, 23°C)	2.0	%	ISO 527
Flexural Modulus (23°C)	6500	MPa	ISO 178
Flexural Stress (23°C)	164	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (23°C)	10	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	136	°C	
CLTE			ISO 11359-2
Flow : -30 to 65°C	2.7E-5	cm/cm/°C	
Transverse : -30 to 65°C	6.9E-5	cm/cm/°C	
Heat Deflection Temperature - (1.8MPa, Unannealed)	140	°C	ASTM D648

XYRON™ G702H

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	3.10		
1 MHz	3.10		
Dissipation Factor			IEC 60250
100 Hz	6.0E-4		
1 MHz	1.1E-3		

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