XYRON™ G402H

Asahi Kasei Corporation - *Polyphenylene Ether + PS*

General Information

Product Description	
Modified PPE 20% Filler reinforced Non-Flame retardant	
General	
Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS-GF20<

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.19	g/cm³	ISO 1183
Molding Shrinkage [2] (0.0787 in)	0.23 to 0.50	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 73°F)	13800	psi	ISO 527
Tensile Strain (Break, 73°F)	2.0	%	ISO 527
Flexural Modulus (73°F)	1.00E+6	psi	ISO 178
Flexural Stress (73°F)	22900	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (73°F)	5.2	ft·lb/in²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	235	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	1.8E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	4.2E-5	in/in/°F	ISO 11359-2
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)	2.90		SPDR
Dissipation Factor (5.20 GHz)	3.0E-3		SPDR
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature - Hot Air Dryer	194 to 212	°F
Drying Time - Hot Air Dryer	2.0 to 4.0	hr
Processing (Melt) Temp	464 to 572	°F
Mold Temperature	122 to 176	°F

Notes

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

[2] 150x150x2 mm

[3] 4 mm