

**XYRON™ AG211**

Asahi Kasei Corporation - Polyamide + PPE

**General Information**
**Product Description**

Modified PPE  
PA/PPE alloy  
10% Filler reinforced Non-Flame retardant

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Automotive Specifications	• FORD WSB-M4D658-A • GM GMW17188P-PA66+PPE- GF10 Color: Black • GM GMW17188P-PA66+PPE- GF10 Color: Brown • GM GMW17188P-PA66+PPE- GF10 Color: Green • GM GMW17188P-PA66+PPE- GF10 Color: Gray • STELLANTIS MS-DB-414
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PA66+PPE-GF10<

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup> (0.118 in)	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	13500	psi	ISO 527
Tensile Strain (Break, 73°F)	5.0	%	ISO 527
Flexural Modulus (73°F)	580000	psi	ISO 178
Flexural Stress (73°F)	21300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength <sup>3</sup> (73°F)	4.8	ft·lb/in <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	464	°F	ISO 75-2/B
CLTE - Flow (-22 to 149°F)	2.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	4.9E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (73°F)	5.0E+15	ohms·cm	IEC 60093
Dielectric Constant			IEC 60250
100 Hz	3.20		
1 MHz	3.10		
Dissipation Factor			IEC 60250
100 Hz	5.0E-3		
1 MHz	0.010		

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	230 to 266	°F
Drying Time - Hot Air Dryer	2.0 to 4.0	hr
Processing (Melt) Temp	536 to 572	°F
Mold Temperature	140 to 248	°F

**Injection Notes**


Recommended processing (melt) temperature of XYRON™ Polyamide + PPE is 280-300°C. Lower temperatures may lead to local degradation in properties due to non-uniform plasticization, while higher temperatures tend to cause silver streaking, other appearance problems and decomposition.

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 120x80x3 mm

<sup>3</sup> 4 mm

