

XYRON™ AG211

Asahi Kasei Corporation - Polyamide + PPE

General Information

Product Description

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

General

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: Gray	• GM GMW17188P-PA66+PPE-GF10 Color: Green
Processing Method	• Injection Molding		
Part Marking Code (ISO11469) (ISO 11469)	• >PA66+PPE-GF10<		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Molding Shrinkage ² (3.00 mm)	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	93.0	MPa	ISO 527
Tensile Strain (Break, 23°C)	5.0	%	ISO 527
Flexural Modulus (23°C)	4000	MPa	ISO 178
Flexural Stress (23°C)	147	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	10	kJ/m ²	ISO 179



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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	240	°C	ISO 75-2/B
CLTE			ISO 11359-2
Flow : -30 to 65°C	4.3E-5	cm/cm/°C	
Transverse : -30 to 65°C	8.9E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	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	110 to 130	°C
Drying Time - Hot Air Dryer	2.0 to 4.0	hr
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	60 to 120	°C

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

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

² 120x80x3 mm

³ 4 mm

