

### General Information

#### Product Description

Modified PPE  
PA/PPE alloy  
Non-reinforced Non-Flame retardant  
Easy FLOW

#### General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • North America
Features	• Good Flow
Processing Method	• Injection Molding

### ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup> (3.00 mm)	1.4 to 2.0	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	65.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	30	%	ISO 527-2
Flexural Modulus (23°C)	2400	MPa	ISO 178
Flexural Stress (23°C)	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength <sup>3</sup> (23°C)	20	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	°C	ISO 75-2/A
CLTE - Flow (-30 to 65°C)	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	2.1E+15	ohms·cm	IEC 60093
Electric Strength <sup>4</sup> (2.00 mm)	25	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.20		
1 MHz	3.00		
Dissipation Factor			IEC 60250
100 Hz	7.0E-3		
1 MHz	0.012		

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	110 to 130	°C
Drying Time	2.0 to 3.0	hr
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	60 to 120	°C

#### Disclaimer:

- Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage. These data may be changed because of improvement in properties.
- Be sure to read the relevant SDS before handling and use, and always follow the Important Precautions.
- Do not use plastics in any of the following orally or medically-related applications.
- Orally-related application : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
- Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

# XYRON™ A0210

## Asahi Kasei Corporation - Polyamide + PPE

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### Injection Notes

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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

<sup>4</sup> Short Time

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