

# XYRON™ AT600

Polyamide + PPE

Asahi Kasei Corporation

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Modified PPE  
PA/PPE alloy  
Non-reinforced Non-Flame retardant  
Easy Flow Heat Resistnce High

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E82268-250808</a>
Search for UL Yellow Card	• <a href="#">Asahi Kasei Corporation</a> • <a href="#">XYRON™</a>
Availability	• Africa & Middle East • Asia Pacific • Europe • North America
Features	• High Flow
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PA66+PPE<

Physical	Nominal Value Unit	Test Method
Density	1.09 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>4</sup> (3.00 mm)	1.4 %	Internal Method

Mechanical	Nominal Value Unit	Test Method
Tensile Stress (Yield, 23°C)	61.0 MPa	ISO 527
Tensile Strain (Break, 23°C)	54 %	ISO 527
Flexural Modulus (23°C)	2400 MPa	ISO 178
Flexural Stress (23°C)	92.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength <sup>5</sup> (23°C)	30 kJ/m <sup>2</sup>	ISO 179

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	190 °C	ISO 75-2/B
CLTE		ISO 11359-2
Flow : -30 to 65°C	9.0E-5 cm/cm/°C	
Transverse : -30 to 65°C	9.0E-5 cm/cm/°C	

Electrical	Nominal Value Unit	Test Method
Volume Resistivity (23°C)	4.1E+15 ohms·cm	IEC 60093
Dielectric Constant		IEC 60250
100 Hz	3.10	
1 MHz	2.90	
Dissipation Factor		IEC 60250
100 Hz	5.0E-3	
1 MHz	0.011	

Flammability	Nominal Value Unit	Test Method
Flame Rating (1.5 mm)	HB	UL 94

Injection	Nominal Value Unit
Drying Temperature	110 to 130 °C
Drying Time	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

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> 120x80x3 mm

<sup>5</sup> 4 mm



---

## Where to Buy

---

### Supplier

#### Asahi Kasei Corporation

**Web:** [https://www.asahi-kasei-plastics.com/en/contact/?utm\\_source=ULProspector+site\\_contact\\_EN&utm\\_medium=ULProspector+site\\_contact\\_EN&utm\\_campaign=ULProspector+site\\_contact\\_EN](https://www.asahi-kasei-plastics.com/en/contact/?utm_source=ULProspector+site_contact_EN&utm_medium=ULProspector+site_contact_EN&utm_campaign=ULProspector+site_contact_EN)

---

### Distributor

#### Entec Polymers

**Telephone:** 833-319-0299

**Web:** [https://www.entecpolymers.com/?utm\\_source=ul&utm\\_medium=paid%20association&utm\\_campaign=entec%20%7C%20entec%201&utm\\_term=ul%20%7C%20where%20to%20buy](https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%201&utm_term=ul%20%7C%20where%20to%20buy)

**Availability:** North America

#### Entec Polymers Latin America

*Contact Entec Polymers for availability of individual products by country.*

**Web:** <https://www.entecpolymers.com/>

**Availability:** Latin America

#### General Polymers Thermoplastic Materials

**Telephone:** 248-762-7676

**Web:** <https://www.gp-materials.com/our-partners>

**Availability:** North America

#### Osterman & Company

**Telephone:** 800-914-4437

**Web:** <http://www.osterman-co.com/>

**Availability:** North America

#### Plastics Plus, Inc.

**Telephone:** 248-393-0300

**Web:** <http://www.plasplus.com/>

**Availability:** North America

#### PolySource

*PolySource is a North American resin and plastics distributor. Please feel to reach out to your Technical Sales Account Manager. <https://polysource.net/our-team/>*

**Telephone:** 816-540-5300

**Web:** <http://www.polysource.net/>

**Availability:** Canada, Mexico, United States

