

## Asahi Kasei Xyron® A0100 PPE/PA

Category : Polymer , Thermoplastic , Nylon , Polyphenylene Ether/PPO , Polyphenylene Ether, Molded

## Material Notes:

Automotive Information provided by Asahi Kasei

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Asahi-Kasei-Xyron-A0100-PPEPA.php](http://www.lookpolymers.com/polymer_Asahi-Kasei-Xyron-A0100-PPEPA.php)

| Physical Properties   | Metric              | English             | Comments                         |
|-----------------------|---------------------|---------------------|----------------------------------|
| Specific Gravity      | 1.10 g/cc           | 1.10 g/cc           | 23°C; ASTM D792                  |
| Moisture Absorption   | 0.100 %             | 0.100 %             | 23°C, 50% RH 24 hours; ASTM D570 |
| Linear Mold Shrinkage | 0.011 - 0.014 cm/cm | 0.011 - 0.014 in/in | ASTM D955                        |

| Mechanical Properties   | Metric                                                  | English                                                      | Comments                |
|-------------------------|---------------------------------------------------------|--------------------------------------------------------------|-------------------------|
| Tensile Strength, Yield | 49.0 MPa                                                | 7110 psi                                                     | 23°C, 50% RH; ASTM D638 |
| Elongation at Break     | 98 %                                                    | 98 %                                                         | 23°C, 50% RH; ASTM D638 |
| Flexural Strength       | 74.0 MPa                                                | 10700 psi                                                    | 23°C, 50% RH; ASTM D790 |
| Flexural Modulus        | 2.019 GPa                                               | 292.8 ksi                                                    | 23°C, 50% RH; ASTM D790 |
| Izod Impact, Notched    | 7.35 J/cm<br>@Thickness 6.40 mm,<br>Temperature 23.0 °C | 13.8 ft-lb/in<br>@Thickness 0.252 in,<br>Temperature 73.4 °F | ASTM D256               |

| Thermal Properties                             | Metric                                          | English                                          | Comments   |
|------------------------------------------------|-------------------------------------------------|--------------------------------------------------|------------|
| CTE, linear                                    | 90.0 µm/m-°C<br>@Temperature -30.0 -<br>60.0 °C | 50.0 µin/in-°F<br>@Temperature -22.0 -<br>140 °F | ASTM D696  |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 150 °C                                          | 302 °F                                           | ASTM D648  |
| Flammability, UL94                             | HB<br>@Thickness 1.60 mm                        | HB<br>@Thickness 0.0630 in                       | Equivalent |
|                                                | HB<br>@Thickness 3.20 mm                        | HB<br>@Thickness 0.126 in                        | Equivalent |

| Processing Properties  | Metric       | English      | Comments          |
|------------------------|--------------|--------------|-------------------|
| Processing Temperature | 260 - 280 °C | 500 - 536 °F | Resin Temperature |

| Mold Temperature<br>Processing Properties | 60.0 - 100 °C<br>Metric | 140 - 212 °F<br>English | Comments               |
|-------------------------------------------|-------------------------|-------------------------|------------------------|
| Drying Temperature                        | 100 - 110 °C            | 212 - 230 °F            | Pre-drying Temperature |
| Dry Time                                  | 3 - 4 hour              | 3 - 4 hour              |                        |

## Contact Songhan Plastic Technology Co.,Ltd.

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