

## XYRON™ T0703

Asahi Kasei Corporation - Polyphenylene Ether + PP

### General Information

#### Product Description

Modified PPE  
PP/PPE alloy  
Non-reinforced Heat Resistance High, Dimensional stability Good

#### General

|                                          |                     |                     |                               |
|------------------------------------------|---------------------|---------------------|-------------------------------|
| Features AKEP website                    | • Barrier, Gas      | • Barrier, Moisture | • Dimensional Stability, Good |
| Processing Method                        | • Injection Molding |                     |                               |
| Part Marking Code (ISO11469) (ISO 11469) | • >PP+PPE<          |                     |                               |

#### Other Documentation

Literature

- [Molding Conditions](#)
- [SDS](#)

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

| Physical                                              | Nominal Value | Unit              | Test Method     |
|-------------------------------------------------------|---------------|-------------------|-----------------|
| Density                                               | 1.01          | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage <sup>2</sup> (2.00 mm)              | 1.0 to 1.2    | %                 | Internal Method |
| Water Absorption (24 hr, 23°C)                        | 0.040         | %                 | ISO 62          |
| Mechanical                                            | Nominal Value | Unit              | Test Method     |
| Tensile Stress (Yield, 23°C)                          | 43.0          | MPa               | ISO 527         |
| Nominal Tensile Strain at Break (23°C)                | 16            | %                 | ISO 527         |
| Flexural Modulus (23°C)                               | 1900          | MPa               | ISO 178         |
| Flexural Stress (23°C)                                | 60.0          | MPa               | ISO 178         |
| Impact                                                | Nominal Value | Unit              | Test Method     |
| Charpy Notched Impact Strength <sup>3</sup> (23°C)    | 15            | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                               | Nominal Value | Unit              | Test Method     |
| Deflection Temperature Under Load (1.8 MPa, Annealed) | 118           | °C                | ISO 75-2/A      |
| Flammability                                          | Nominal Value | Unit              | Test Method     |
| Flame Rating (1.5 mm)                                 | HB            |                   | UL 94           |



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| Processing Information             |               |      |
|------------------------------------|---------------|------|
| Injection                          | Nominal Value | Unit |
| Drying Temperature - Hot Air Dryer | 90 to 100     | °C   |
| Drying Time - Hot Air Dryer        | 2.0 to 4.0    | hr   |
| Processing (Melt) Temp             | 250 to 290    | °C   |
| Mold Temperature                   | 50 to 90      | °C   |

Notes

- <sup>1</sup> Typical properties: these are not to be construed as specifications.
- <sup>2</sup> 150x150x2 mm
- <sup>3</sup> 4 mm

