

【Inquiries】

AsahiKASEI Engineering Plastics Information Comprehensive Site
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AsahiKASEI



XYRON™ TZ100

Asahi Kasei Corporation - Polyphenylene Ether + PP

Wednesday, February 28, 2024

General Information

Product Description

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

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
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](#)
 - [Technical Handbook](#)

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	1.8 to 2.0	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	36.0	MPa	ISO 527
Nominal Tensile Strain at Break (23°C)	60	%	ISO 527
Flexural Modulus (23°C)	2200	MPa	ISO 178
Flexural Stress (23°C)	55.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	26	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	93.0	°C	
CLTE			ISO 11359-2
Flow : -30 to 65°C	5.4E-5	cm/cm/°C	
Transverse : -30 to 65°C	9.7E-5	cm/cm/°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 applications: 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 Corporation.

- Medically-related applications: any part, device 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.

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Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+16	ohms-cm	IEC 60093
Dielectric Constant			
5.20 GHz	2.30		SPDR
100 Hz	2.30		IEC 60250
1 MHz	2.30		IEC 60250
Dissipation Factor			
5.20 GHz	1.0E-3		SPDR
100 Hz	2.0E-4		IEC 60250
1 MHz	5.0E-4		IEC 60250

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	80 to 90	°C
Drying Time - Hot Air Dryer	1.0 to 2.0	hr
Processing (Melt) Temp	230 to 260	°C
Mold Temperature	50 to 70	°C

Notes

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

² 150x150x2 mm

³ 4 mm

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