

XYRON™ TZ100

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	• Good Dimensional Stability	• High Heat Resistance
Processing Method	• Injection Molding	
Part Marking Code (ISO11469) (ISO 11469)	• >PP+PPE<	

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 1.8 MPa, Unannealed	93.0	°C	ISO 75-2/A
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	



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

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature	80 to 90	°C	
Drying Time	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

