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			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
Features	• Gas Barrier	• Good Dimensional Stability	• Moisture Barrier
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >PP+PPE<		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm³	ISO 1183
Molding Shrinkage [2] (0.0787 in)	1.8 to 2.0	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 73°F)	5220	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	60	%	ISO 527
Flexural Modulus (73°F)	319000	psi	ISO 178
Flexural Stress (73°F)	7980	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (73°F)	12	ft·lb/in²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	199	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	3.0E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	5.4E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity (73°F)	1.0E+16	ohms·cm	IEC 60093
Dielectric Constant (5.20 GHz)	2.30		SPDR
Dielectric Constant			IEC 60250
100 Hz	2.30		
1 MHz	2.30		
Dissipation Factor (5.20 GHz)	1.0E-3		SPDR
Dissipation Factor			IEC 60250
100 Hz	2.0E-4		
1 MHz	5.0E-4		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	176 to 194	°F
Drying Time - Hot Air Dryer	1.0 to 2.0	hr
Processing (Melt) Temp	446 to 500	°F
Mold Temperature	122 to 158	°F

Notes

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

[2] 150x150x2 mm