

XYRON™ W5000

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information
Product Description

Modified PPE
 Unreinforced non-Flame retardant
 Please contact us for drinking water standards information.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Features	• Drinking Water Contact Acceptable
Agency Ratings	• NSF STD-61
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Molding Shrinkage ² (0.0787 in)	0.60 to 0.80	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	7690	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	31	%	ISO 527
Flexural Modulus (73°F)	334000	psi	ISO 178
Flexural Stress (73°F)	13300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (73°F)	9.0	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	237	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	3.8E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	4.0E-5	in/in/°F	ISO 11359-2
Heat Deflection Temperature - (1.8MPa, Unannealed)	120	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (73°F)	1.0E+16	ohms·cm	IEC 60093
Dielectric Constant			IEC 60250
100 Hz	2.80		
1 MHz	2.80		
Dissipation Factor			IEC 60250
100 Hz	5.0E-4		
1 MHz	6.0E-4		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in, ALL)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	194 to 212	°F
Drying Time - Hot Air Dryer	2.0 to 4.0	hr
Processing (Melt) Temp	464 to 554	°F
Mold Temperature	122 to 176	°F



Notes

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

² 150x150x2 mm

³ 4 mm

