

**XYRON™ 500H**

Asahi Kasei Corporation - Polyphenylene Ether + PS

## General Information

**Product Description**

 Modified PPE  
 Unreinforced non-Flame retardant

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS<

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup> (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 <sup>3</sup> (73°F)	9.0	ft·lb/in <sup>2</sup>	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 - (1.8 MPa, Unannealed)	120		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 (5.20 GHz)	2.60		SPDR
Dielectric Constant			IEC 60250
100 Hz	2.80		
1 MHz	2.80		
Dissipation Factor (5.20 GHz)	1.0E-3		SPDR
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)	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



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<sup>1</sup> Typical properties: these are not to be construed as specifications.

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<sup>2</sup> 150x150x2 mm

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<sup>3</sup> 4 mm

