

XYRON™ 1000H

Polyphenylene Ether + PS
Asahi Kasei Chemicals Corporation

Message:
Modified PPE
Unreinforced non-Flame retardant
Heat resistance High

General Information			
Features	High Heat Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Molding Shrinkage ¹ (2.00 mm)	0.80 to 1.0	%	Internal Method
Water Absorption (23°C, 24 hr)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	72.0	MPa	ISO 527-2
Nominal Tensile Strain at Break (23°C)	20	%	ISO 527-2
Flexural Modulus (23°C)	2540	MPa	ISO 178
Flexural Stress (23°C)	109	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	6.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	170	°C	ASTM D648
1.8 MPa, Unannealed	164	°C	ISO 75-2/A
CLTE - Flow (-30 to 65°C)	6.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+16	ohms · cm	IEC 60093
Electric Strength ³ (2.00 mm)	30	kV/mm	IEC 60243-1
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 (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	

Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	280 to 320	°C
Mold Temperature	80.0 to 120	°C
NOTE		
1.	150x150x2 mm	
2.	4 mm	
3.	Short Time	

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