XYRON™ 1000H

Asahi Kasei Corporation - *Polyphenylene Ether + PS*

General Information

Product Description	
Modified PPE Unreinforced non-Flame retardant Heat resistance High	
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 [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.07	g/cm³	ISO 1183
Molding Shrinkage [2] (0.0787 in)	0.70 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)	10200	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	24	%	ISO 527
Flexural Modulus (73°F)	348000	psi	ISO 178
Flexural Stress (73°F)	16200	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (73°F)	3.8	ft·lb/in²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	316	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	3.3E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	3.4E-5	in/in/°F	ISO 11359-2
Heat Deflection Temperature - (1.8MPa, Unannealed)	338	°F	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)	2.0E-3		SPDR
Dissipation Factor			IEC 60250
100 Hz	5.0E-4		
1 MHz	6.0E-4		

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature - Hot Air Dryer	212 to 248	°F
Drying Time - Hot Air Dryer	2.0 to 4.0	hr
Processing (Melt) Temp	536 to 608	°F
Mold Temperature	176 to 248	°F

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