XYRON™ 200H

Asahi Kasei Corporation - *Polyphenylene Ether + PS*

General Information

Product Description	
Modified PPE Unreinforced non-Flame retardant Easy flow	
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	1.05	g/cm³	ISO 1183
Molding Shrinkage [2] (0.0787 in)	0.50 to 0.70	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 73°F)	5950	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	35	%	ISO 527
Flexural Modulus (73°F)	348000	psi	ISO 178
Flexural Stress (73°F)	10300	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (73°F)	6.2	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)	4.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	4.2E-5	in/in/°F	ISO 11359-2
Heat Deflection Temperature - (1.8 MPa, Unannealed)	194	°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		
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in)	HB		UL 94
Cured Properties	**Nominal Value**	**Unit**	**Test Method**
Dielectric Constant (5.00 GHz)	0.00200		SPDR

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature - Hot Air Dryer	176 to 194	°F
Drying Time - Hot Air Dryer	2.0 to 4.0	hr

Processing (Melt) Temp	428 to 518 °F
Mold Temperature	104 to 158 °F

Notes

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

[2] 150x150x2 mm

[3] 4 mm