

XYRON™ X444H

Polyphenylene Ether + PS
Asahi Kasei Chemicals Corporation

Message:

Modified PPE
40% Filler reinforced Non-Flame retardant
Stiffness High, Warpage Low

General Information			
UL YellowCard	E82268-250928		
Filler / Reinforcement	Filler, 40% filler by weight		
Features	Low warpage		
	Rigidity, high		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage ¹ (2.00 mm)	0.10 - 0.40	%	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
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	8200	MPa	ISO 178
Flexural Stress (23°C)	134	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, not annealed	110	°C	ASTM D648
1.8 MPa, not annealed	108	°C	ISO 75-2/A
CLTE - Flow (-30 to 65°C)	3.0E-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
Dielectric Constant			IEC 60250
100 Hz	3.40		IEC 60250
1 MHz	3.30		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	7.0E-3		IEC 60250
1 MHz	9.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method

Flame Rating (0.810 mm)	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	90.0 - 100	°C
Drying Time	2.0 - 4.0	hr
Processing (Melt) Temp	250 - 300	°C
Mold Temperature	60.0 - 90.0	°C
NOTE		
1.	150x150x2 mm	
2.	4 mm	

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