

XYRON™ X1744

Polyphenylene Ether + PS
Asahi Kasei Chemicals Corporation

Message:

Modified PPE
35% Filler reinforced Flame retardant V-1
Stiffness High, Warpage Low, Easy Flow

General Information			
UL YellowCard	E82268-250888		
Filler / Reinforcement	Filler,35% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Flow		
	High Stiffness		
	Low Warpage		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage ¹ (2.00 mm)	0.15 to 0.43	%	Internal Method
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	90.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	7500	MPa	ISO 178
Flexural Stress (23°C)	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	5.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	120	°C	ASTM D648
1.8 MPa, Unannealed	118	°C	ISO 75-2/A
CLTE - Flow (-30 to 65°C)	3.5E-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
Dielectric Constant			IEC 60250
100 Hz	3.40		
1 MHz	3.30		
Dissipation Factor			IEC 60250

100 Hz	7.0E-3		
1 MHz	9.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-1		
3.00 mm	V-0		
2.20 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	250 to 300	°C	
Mold Temperature	70.0 to 90.0	°C	
NOTE			
1.	150x150x2 mm		
2.	4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

