

XYRON™ 640Z

Polyphenylene Ether + PS
Asahi Kasei Chemicals Corporation

Message:

Modified PPE
Unreinforced Flame retardant V-0
Heat resistance High

General Information			
UL YellowCard	E82268-100035398	E82268-250796	
Additive	Flame Retardant		
Features	Flame Retardant		
	High Heat Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Molding Shrinkage ¹ (2.00 mm)	0.50 to 0.70	%	Internal Method
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Outdoor Suitability (Black)	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	65.0	MPa	ISO 527-2
Nominal Tensile Strain at Break (23°C)	18	%	ISO 527-2
Flexural Modulus (23°C)	2470	MPa	ISO 178
Flexural Stress (23°C)	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ² (23°C)	12	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	130	°C	ASTM D648
1.8 MPa, Unannealed	124	°C	ISO 75-2/A
CLTE - Flow (-30 to 65°C)	7.0E-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
Electric Strength ³ (2.00 mm)	29	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	2.90		
1 MHz	2.90		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		

1 MHz	4.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
2.00 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 320	°C	
Mold Temperature	60.0 to 90.0	°C	
NOTE			
1.	150x150x2 mm		
2.	4 mm		
3.	Short Time		

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