

**XYRON™ 744Z**

Asahi Kasei Corporation - Polyphenylene Ether + PS

**General Information**
**Product Description**

 Modified PPE  
 Unreinforced Flame retardant V-0  
 Heat resistance High

**General**

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> <li>Europe</li> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Flame Retardant</li> </ul>
Features	<ul style="list-style-type: none"> <li>Flame Retardant</li> <li>Halogen Free</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>
Part Marking Code (ISO 11469)	<ul style="list-style-type: none"> <li>&gt;PPE+PS-FR(40)&lt;</li> </ul>

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup> (0.0787 in)	0.80 to 1.0	%	Internal Method
Outdoor Suitability (Black)	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	10900	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	9.0	%	ISO 527
Flexural Modulus (73°F)	348000	psi	ISO 178
Flexural Stress (73°F)	16100	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength <sup>3</sup> (73°F)	7.6	ft·lb/in <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	275	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	3.6E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	3.7E-5	in/in/°F	ISO 11359-2
RTI Elec	257	°F	UL 746B
RTI Imp	257	°F	UL 746B
RTI Str	257	°F	UL 746B
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)	2.70		SPDR
Dissipation Factor (5.20 GHz)	4.0E-3		SPDR
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.04 in		V-0	
0.08 in		5VA	

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	194 to 212	°F
Drying Time - Hot Air Dryer	2.0 to 4.0	hr
Processing (Melt) Temp	482 to 608	°F
Mold Temperature	140 to 212	°F

