XYRON™ 240Z

Asahi Kasei Corporation - *Polyphenylene Ether + PS*

General Information

Product Description	
Modified PPE Unreinforced Flame retardant V-0 Easy flow	
General	
Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS-FR(40)<

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.10	g/cm³	ISO 1183
Molding Shrinkage [2] (0.0787 in)	0.50 to 0.70	%	Internal Method
Water Absorption (24 hr, 73°F)	0.10	%	ISO 62
Outdoor Suitability (Black)	f1		UL 746C
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 73°F)	8700	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	9.0	%	ISO 527
Flexural Modulus (73°F)	392000	psi	ISO 178
Flexural Stress (73°F)	13800	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (73°F)	7.6	ft·lb/in²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	187	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	3.8E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	4.1E-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)	2.70		SPDR
Dielectric Constant			IEC 60250
100 Hz	2.90		
1 MHz	2.90		
Dissipation Factor (5.20 GHz)	5.0E-3		SPDR
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	4.0E-3		
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.06 in	V-0		
0.10 in	5VA		

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