XYRON™ 443Z

Asahi Kasei Corporation - *Polyphenylene Ether + PS*

General Information

Product Description			
Modified PPE Unreinforced Flame retardant V-0			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• Halogen Free	• High Impact Resistance
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)	0.60 to 0.80	%	Internal Method
Water Absorption (24 hr, 73°F)	0.10	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 73°F)	8990	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	14	%	ISO 527
Flexural Modulus (73°F)	322000	psi	ISO 178
Flexural Stress (73°F)	13900	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (73°F)	20	ft·lb/in²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	226	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	4.3E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	4.9E-5	in/in/°F	ISO 11359-2
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
0.030 in, ALL	V-0		
0.12 in, ALL	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	554 to 608	°F
Mold Temperature	140 to 212	°F

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 150x150x2 mm

[3] 4 mm