

XYRON™ VT31V

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information
Product Description

 Modified PPE
 10% Filler reinforced Flame retardant V-1
 Acoustic Damping
 Loss factor 9.5

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Mineral, 10% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free • Noise Damping
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS-MD10FR(40)<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Molding Shrinkage ² (0.0787 in)	0.40 to 0.50	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	6380	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	43	%	ISO 527
Flexural Modulus (73°F)	348000	psi	ISO 178
Flexural Stress (73°F)	10900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (73°F)	4.3	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	203	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	2.8E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	3.9E-5	in/in/°F	ISO 11359-2
Heat Deflection Temperature - (1.8MPa, Unannealed)	100	°C	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)	2.80		SPDR
Dissipation Factor (5.20 GHz)	4.0E-3		SPDR
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in	V-2		
0.06 in	V-1		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	212 to 230	°F
Drying Time - Hot Air Dryer	3.0 to 4.0	hr
Processing (Melt) Temp	482 to 554	°F
Mold Temperature	122 to 176	°F



Notes

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

² 150x150x2 mm

³ 4 mm

