

XYRON™ VT52Z

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description

Modified PPE
20% Filler reinforced Flame retardant V-0
Acoustic Damping
Loss factor 6.7

General

Filler / Reinforcement	• Mineral, 20% Filler by Weight
Additive	• Flame Retardant
Features AKEP website	• Flame Retardant • Halogen Free • Noise Damping
Processing Method	• Injection Molding
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-TD20FR(40)<

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.37 to 0.44	%	Internal Method
Water Absorption (24 hr, 23°C)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	54.0	MPa	ISO 527
Nominal Tensile Strain at Break (23°C)	13	%	ISO 527
Flexural Modulus (23°C)	4100	MPa	ISO 178
Flexural Stress (23°C)	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	5.0	kJ/m ²	ISO 179



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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	113	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow : -30 to 65°C	3.5E-5	cm/cm/°C	
Transverse : -30 to 65°C	5.7E-5	cm/cm/°C	
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
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	V-0		UL 94

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature - Hot Air Dryer	100 to 110	°C	
Drying Time - Hot Air Dryer	3.0 to 4.0	hr	
Processing (Melt) Temp	260 to 300	°C	
Mold Temperature	60 to 90	°C	

Notes

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

² 150x150x2 mm

³ 4 mm

