

XYRON™ VTD1V

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description

Modified PPE
10% Filler reinforced
Acoustic Damping
Loss factor 6.3

General

Filler / Reinforcement	• Mineral, 10% Filler by Weight	
Additive	• Flame Retardant	
Features AKEP website	• Flame Retardant • Halogen Free	• Impact Resistance, High • Noise Damping
Processing Method	• Injection Molding	
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-TD10FR(40)<	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.43 to 0.58	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	46.0	MPa	ISO 527
Nominal Tensile Strain at Break (23°C)	21	%	ISO 527
Flexural Modulus (23°C)	2600	MPa	ISO 178
Flexural Stress (23°C)	74.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	20	kJ/m ²	ISO 179



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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	98.0	°C	
CLTE			
Flow : -30 to 65°C	6.2E-5	cm/cm/°C	ISO 11359-2
Transverse : -30 to 65°C	8.7E-5	cm/cm/°C	ISO 11375-2
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

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	250 to 290	°C	
Mold Temperature	50 to 80	°C	

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 150x150x2 mm
- ³ 4 mm

