

XYRON™ VTD1V

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information
Product Description

 Modified PPE
 10% Filler reinforced
 Acoustic Damping
 Loss factor 6.3

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 • High Impact Resistance • 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	1.13	g/cm ³	ISO 1183
Molding Shrinkage ² (0.0787 in)	0.43 to 0.58	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	6670	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	21	%	ISO 527
Flexural Modulus (73°F)	377000	psi	ISO 178
Flexural Stress (73°F)	10700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (73°F)	9.5	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	208	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	3.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	4.8E-5	in/in/°F	ISO 11375-2
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

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
