

XYRON™ G544V

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description

 Modified PPE
 35% Filler reinforced Flame retardant V-1
 Stiffness High, Warpage Low

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Glass Fiber\Mineral, 35% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • High Flow • Halogen Free • Low Warpage
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS-(GF+MD)35FR(40)<

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Molding Shrinkage ² (0.0787 in)	0.14 to 0.38	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	15100	psi	ISO 527
Tensile Strain (Break, 73°F)	2.0	%	ISO 527
Flexural Modulus (73°F)	1.45E+6	psi	ISO 178
Flexural Stress (73°F)	25400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (73°F)	2.9	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	235	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	1.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	3.2E-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)	3.40		SPDR
Dissipation Factor (5.20 GHz)	6.0E-3		SPDR
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.05 in)	V-1		UL 94

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	482 to 572	°F
Mold Temperature	158 to 194	°F

Notes

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

² 150x150x2 mm

³ 4 mm
