

XYRON™ DV166

Asahi Kasei Corporation - Polyphenylene Sulfide + PPE

General Information
Product Description

 Modified PPE
 PPS/PPE alloy
 60% Filler reinforced Flame retardant V-1

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	
	• Asia Pacific	• North America	
Filler / Reinforcement	• Glass Fiber/Mineral, 60% Filler by Weight		
Additive	• Flame Retardant		
Features	• Flame Retardant	• Good Dimensional Stability	• Low Warpage
	• Gas Barrier	• Low Fogging	• Moisture Barrier
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >PPS+PPE-(GF+MD)60FR(40)<		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.82	g/cm ³	ISO 1183
Molding Shrinkage ² (0.0787 in)	0.10 to 0.20	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	12600	psi	ISO 527
Tensile Strain (Break, 73°F)	1.0	%	ISO 527
Flexural Modulus (73°F)	2.63E+6	psi	ISO 178
Flexural Stress (73°F)	20700	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)	493	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	7.8E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	1.7E-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			IEC 60250
100 Hz	4.80		
1 MHz	4.20		
Dissipation Factor			IEC 60250
100 Hz	0.021		
1 MHz	0.013		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.10 in)	V-1		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	248	°F
Drying Time - Hot Air Dryer	3.0 to 4.0	hr
Processing (Melt) Temp	572 to 626	°F
Mold Temperature	194 to 266	°F



Notes

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

² 150x150x2 mm

³ 4 mm

