

XYRON™ 540V

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description	
Modified PPE Unreinforced Flame retardant V-1	
General	
Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS-FR(40)<

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Molding Shrinkage ² (0.0787 in)	0.60 to 0.80	%	Internal Method
Water Absorption (24 hr, 73°F)	0.10	%	ISO 62
Outdoor Suitability (Black)	f2		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	9430	psi	ISO 527
Nominal Tensile Strain at Break (73°F)	13	%	ISO 527
Flexural Modulus (73°F)	363000	psi	ISO 178
Flexural Stress (73°F)	14800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (73°F)	8.6	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	237	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	3.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	3.6E-5	in/in/°F	ISO 11359-2
Heat Deflection Temperature - (1.8 MPa, Unannealed)	248	°F	ASTM D648
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
Dielectric Constant			IEC 60250
100 Hz	2.90		
1 MHz	2.90		
Dissipation Factor (5.20 GHz)	5.0E-3		SPDR
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	4.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.029 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	464 to 572 °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

