AsahiKASEI

XYRON™ 540V

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description		
Modified PPE Unreinforced Flame retardant V-1		
General		
Additive	• Flame Retardant	
Features AKEP website	• Flame Retardant	• Halogen Free
Processing Method	• Injection Molding	
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-FR(40)<	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm³	ISO 1183
Molding Shrinkage [2] (2.00 mm)	0.60 to 0.80	%	Internal Method
Water Absorption (24 hr, 23°C)	0.10	%	ISO 62
Outdoor Suitability (Black)	f2		UL 746C
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 23°C)	65.0	MPa	ISO 527
Nominal Tensile Strain at Break (23°C)	13	%	ISO 527
Flexural Modulus (23°C)	2500	MPa	ISO 178
Flexural Stress (23°C)	102	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (23°C)	18	kJ/m²	ISO 179

XYRON™ 540V

Asahi Kasei Corporation - Polyphenylene Ether + PS

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	114	°C	
CLTE			ISO 11359-2
Flow : -30 to 65°C	5.8E-5	cm/cm/°C	
Transverse : -30 to 65°C	6.4E-5	cm/cm/°C	
Heat Deflection Temperature - (1.8 MPa, Unannealed)	120	°C	ASTM D648
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
Dielectric Constant			IEC 60250
100 Hz	2.90		
1 MHz	2.90		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	4.0E-3		
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.73 mm)	V-1		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	90 to 100	°C
Drying Time - Hot Air Dryer	2.0 to 4.0	hr
Processing (Melt) Temp	240 to 300	°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