AsahiKASEI

XYRON™ X8610

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description
Modified PPE
10% Filler reinforced Flame retardant V-1
Electrically Conductive, Stiffness High, Warpage Low

General			
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight		
Features AKEP website	• Electrically Conductive	• Flame Retardant	• Halogen Free
Processing Method	• Injection Molding		
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-CF10FR(40)<		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm³	ISO 1183
Molding Shrinkage [2] (2.00 mm)	0.19 to 0.45	%	Internal Method
Water Absorption (24 hr, 23°C)	0.060	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 23°C)	90.0	MPa	ISO 527
Tensile Strain (Break, 23°C)	1.0	%	ISO 527
Flexural Modulus (23°C)	8500	MPa	ISO 178
Flexural Stress (23°C)	130	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (23°C)	7.0	kJ/m²	ISO 179

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	123	°C	
CLTE			ISO 11359-2
Flow : -30 to 65°C	1.7E-5	cm/cm/°C	
Transverse : -30 to 65°C	7.3E-5	cm/cm/°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+2 to 1.0E+3	ohms·cm	IEC 60093

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 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	250 to 300	°C
Mold Temperature	60 to 90	°C

Notes

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

[2] 150x150x2 mm

[3] 4 mm