

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

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight
Features	• Electrically Conductive • Flame Retardant • Halogen Free
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS-CF10FR(40)<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Molding Shrinkage ² (0.0787 in)	0.19 to 0.45	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	13100	psi	ISO 527
Tensile Strain (Break, 73°F)	1.0	%	ISO 527
Flexural Modulus (73°F)	1.23E+6	psi	ISO 178
Flexural Stress (73°F)	18900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (73°F)	3.3	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	253	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	9.4E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	4.1E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity (73°F)	1.0E+5	ohms	IEC 62631-3-2
Volume Resistivity (73°F)	1.0E+5 to 1.0E+6	ohms·m	IEC 62631-3-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 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	140 to 194	°F

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

² 150x150x2 mm

³ 4 mm
