AsahiKASEI

XYRON™ X523V

Asahi Kasei Corporation - Polyphenylene Ether + PS

General Information

Product Description		
Modified PPE 30% Filler reinforced Flame retardant V-1 Stiffness High, Warpage Low		
General		
Filler / Reinforcement	• Mineral, 30% Filler by Weight	
Additive	• Flame Retardant	
Features AKEP website	• Flame Retardant • Good appearance	• Halogen Free • Warpage, Low
Processing Method	• Injection Molding	
Part Marking Code (ISO11469) (ISO 11469)	• >PPE+PS-MD30FR(40)<	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm³	ISO 1183
Molding Shrinkage [2] (2.00 mm)	0.19 to 0.38	%	Internal Method
Water Absorption (24 hr, 23°C)	0.060	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 23°C)	60.0	MPa	ISO 527
Tensile Strain (Break, 23°C)	3.0	%	ISO 527
Flexural Modulus (23°C)	6200	MPa	ISO 178
Flexural Stress (23°C)	106	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (23°C)	3.0	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	118	°C	
CLTE			ISO 11359-2
Flow : -30 to 65°C	3.1E-5	cm/cm/°C	
Transverse : -30 to 65°C	6.2E-5	cm/cm/°C	
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
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	70 to 90	°C

Notes

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

[2] 150x150x2 mm

[3] 4 mm