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	
Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • North America
Filler / Reinforcement	• Mineral, 30% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free • Low Warpage • Pleasing Surface Appearance
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PPE+PS-MD30FR(40)<

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.34	g/cm³	ISO 1183
Molding Shrinkage [2] (0.0787 in)	0.19 to 0.38	%	Internal Method
Water Absorption (24 hr, 73°F)	0.060	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 73°F)	8700	psi	ISO 527
Tensile Strain (Break, 73°F)	3.0	%	ISO 527
Flexural Modulus (73°F)	899000	psi	ISO 178
Flexural Stress (73°F)	15400	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (73°F)	1.4	ft·lb/in²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	244	°F	ISO 75-2/A
CLTE - Flow (-22 to 149°F)	1.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (-22 to 149°F)	3.4E-5	in/in/°F	ISO 11359-2
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 (100 Hz)	3.30		IEC 60250
Dissipation Factor (100 Hz)	6.0E-3		IEC 60250
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	158 to 194	°F