

Xyron™ X551V

PPE-X10

Asahi Kasei

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	54	MPa	ISO 527
Flexural modulus, 23°C	3900	MPa	ISO 178
Flexural strength	110	MPa	ISO 178
Charpy notched impact strength, +23°C	4	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	118	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	60	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-1	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
ASTM Data			
DTUL @ 264 psi	120	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.1	-	IEC 62631-2-1
Relative permittivity, 1MHz	3	-	IEC 62631-2-1
Dissipation factor, 100Hz	30	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	50	E-4	IEC 62631-2-1
Volume resistivity	1E14	Ohm*m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Density	1150	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 110	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	250 - 300	°C	-
Mold temperature	70 - 90	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Features

Low Warpage