Xyron™ X531Z

PPE-X10 Asahi Kasei

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**71**	MPa	ISO 527
Flexural modulus, 23°C	**3600**	MPa	ISO 178
Flexural strength	**119**	MPa	ISO 178
Charpy notched impact strength, +23°C	**5**	kJ/m²	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 thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
Burning behav. 5V at thickness h	**5VA**	class	IEC 60695-11-20
Thickness tested	**2.5**	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/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**90 - 100**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Melt temperature	**250 - 300**	°C	-
Mold temperature	**70 - 90**	°C	-

Characteristics

Processing

Injection Molding

Features

Low Warpage

Regional Availability

North America, Europe, Asia Pacific