

XYRON™ 500H

(PPE+PS)

Asahi Kasei

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	47	MPa	ISO 527
Flexural modulus, 23°C	2430	MPa	ISO 178
Flexural strength	78	MPa	ISO 178
^[C] Charpy notched impact strength, +23°C	19	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	114	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-

ASTM Data

DTUL @ 264 psi	120	°C	ASTM D 648
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[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	2.8	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	2.8	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	5	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	6	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	30	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.06	%	Sim. to ISO 62
^[C] Density	1060	kg/m ³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	90 - 100	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	240 - 290	°C	-
Mold temperature	50 - 80	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa