XYRON™ X1712

(PPE+PS)-GX40 Asahi Kasei

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**78**	MPa	ISO 527
Flexural modulus, 23°C	**7840**	MPa	ISO 178
Flexural strength	**138**	MPa	ISO 178
[C] Charpy notched impact strength, +23°C	**4**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**108**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**30**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
ASTM Data			
DTUL @ 264 psi	**110**	°C	ASTM D 648

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**3.4**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**3.3**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**6**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**9**	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

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.06**	%	Sim. to ISO 62
[C] Density	**1450**	kg/m³	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	**250 - 300**	°C	-
Mold temperature	**60 - 90**	°C	-

Characteristics

Processing

Injection Molding

Features

Low Warpage

Regional Availability

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