Xytron™ G3010E

PPS-I-GF30 Envalior

Product Texts

30% Glass Reinforced, High Impact, Food Contact Quality, Drinking Water Grade

ISO 1043 PPS-I-GF30

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.7**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**9500**	MPa	ISO 527
[C] Stress at break	**145**	MPa	ISO 527
[C] Strain at break	**2.6**	%	ISO 527
[C] Charpy impact strength, +23°C	**65**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**75**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**18.5**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**11**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**280**	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**90**	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**250**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**18**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**60**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Yellow Card available	**yes**	-	-
[C] Burning Behav. at thickness h	**V-0**	class	IEC 60695-11-10
Yellow Card available	**yes**	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
[C] Electric strength	**36**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**175**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Humidity absorption	**0.04**	%	Sim. to ISO 62
[C] Density	**1450**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Certifications
Food contact, Drinking water contact

Delivery form
Pellets

Regional Availability
North America, Europe, Asia Pacific

Special Characteristics
High impact or impact modified

Other text information

Injection molding
Injection Molding Recommendations
Hot runner recommendations for molding high heat performance Engineering Materials
Recommendations for machining Xytron