Property Data

Envalior
Imagine the Future

Xytron™ G3020DW–FC

PPS–GF30

30% Glass Reinforced, Drinking Water Grade, Food Contact Quality, Flame Retardant

Print Date: 2024–11–12

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Molding shrinkage (parallel)	0.2	%	ISO 294–4
Molding shrinkage (normal)	0.65	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	11500	MPa	ISO 527–1/–2
Tensile modulus (120°C)	5600	MPa	ISO 527–1/–2
Tensile modulus (160°C)	3600	MPa	ISO 527–1/–2
Tensile modulus (200°C)	2800	MPa	ISO 527–1/–2
Stress at break	175	MPa	ISO 527–1/–2
Stress at break (120°C)	80	MPa	ISO 527–1/–2
Stress at break (160°C)	65	MPa	ISO 527–1/–2
Stress at break (200°C)	55	MPa	ISO 527–1/–2
Strain at break	2.1	%	ISO 527–1/–2
Strain at break (120°C)	3.5	%	ISO 527–1/–2
Strain at break (160°C)	5	%	ISO 527–1/–2
Strain at break (200°C)	5.4	%	ISO 527–1/–2
Flexural modulus	11000	MPa	ISO 178
Flexural strength	225	MPa	ISO 178
Flexural modulus (120°C)	5300	MPa	ISO 178
Flexural modulus (160°C)	4200	MPa	ISO 178
Flexural modulus (200°C)	3500	MPa	ISO 178
Charpy impact strength (+23°C)	50	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9	kJ/m²	ISO 179/1eA

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THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	280	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	265	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.18	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.5	E–4/°C	ISO 11359–1/–2
Coef. of lin. therm expansion, parallel, above Tg	0.18	E–4/°C	ISO 11359–1/–2
Coef. of lin. therm expansion, normal, above Tg	1.2	E–4/°C	ISO 11359–1/–2
ELECTRICAL PROPERTIES	**VALUE**		
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
OTHER PROPERTIES	**VALUE**		
Density	1550	kg/m³	ISO 1183
Humidity absorption	0.05	%	Sim. to ISO 62