

Xytron™ G4024T/A

PPS–GF40

40% Glass Reinforced, Excellent Mold Release, Flame Retardant

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Molding shrinkage (parallel)	0.2	%	ISO 294–4
Molding shrinkage (normal)	0.7	%	ISO 294–4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	15100	MPa	ISO 527–1/–2
Tensile modulus (120°C)	7100	MPa	ISO 527–1/–2
Tensile modulus (160°C)	5500	MPa	ISO 527–1/–2
Tensile modulus (200°C)	4700	MPa	ISO 527–1/–2
Stress at break	205	MPa	ISO 527–1/–2
Stress at break (120°C)	86	MPa	ISO 527–1/–2
Stress at break (160°C)	63	MPa	ISO 527–1/–2
Stress at break (200°C)	50	MPa	ISO 527–1/–2
Strain at break	1.9	%	ISO 527–1/–2
Strain at break (120°C)	3.2	%	ISO 527–1/–2
Strain at break (160°C)	2.9	%	ISO 527–1/–2
Strain at break (200°C)	3.2	%	ISO 527–1/–2
Flexural modulus	14900	MPa	ISO 178
Flexural strength	294	MPa	ISO 178
Flexural modulus (120°C)	7200	MPa	ISO 178
Flexural modulus (160°C)	5700	MPa	ISO 178
Flexural modulus (200°C)	5000	MPa	ISO 178
Charpy impact strength (+23°C)	51	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10	kJ/m ²	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)	266	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.14	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.47	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, parallel, above Tg	0.13	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, normal, above Tg	1.33	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	V-0	class	IEC 60695-11-10
Relative Temperature Index – electrical	130	°C	UL746B
RTI electrical (Thickness (1) tested)	0.4	mm	UL746B
Thermal conductivity in plane	0.4	W/(m K)	ASTM E1461
Thermal conductivity through plane	0.35	W/(m K)	ASTM E1461
ELECTRICAL PROPERTIES			
	VALUE		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	29	kV/mm	IEC 60243-1
Dissipation factor (5GHz)	55	E-4	IEC 61189-2-721
Relative permittivity (5GHz)	4.1	–	IEC 61189-2-721
OTHER PROPERTIES			
	VALUE		
Density	1670	kg/m³	ISO 1183

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