

Xytron™ G4080HR

PPS–GF40

40% Glass Reinforced, Flame Retardant, Hydrolysis resistant

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)	0.5	%	ISO 294–4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	15000	MPa	ISO 527–1/–2
Tensile modulus (120°C)	6300	MPa	ISO 527–1/–2
Tensile modulus (160°C)	4400	MPa	ISO 527–1/–2
Tensile modulus (200°C)	3500	MPa	ISO 527–1/–2
Stress at break	190	MPa	ISO 527–1/–2
Stress at break (120°C)	85	MPa	ISO 527–1/–2
Stress at break (160°C)	62	MPa	ISO 527–1/–2
Stress at break (200°C)	50	MPa	ISO 527–1/–2
Strain at break	2	%	ISO 527–1/–2
Strain at break (120°C)	4.5	%	ISO 527–1/–2
Strain at break (160°C)	5.1	%	ISO 527–1/–2
Strain at break (200°C)	5.8	%	ISO 527–1/–2
Flexural modulus	14000	MPa	ISO 178
Flexural strength	290	MPa	ISO 178
Flexural modulus (120°C)	5800	MPa	ISO 178
Flexural modulus (160°C)	4400	MPa	ISO 178
Flexural modulus (200°C)	3900	MPa	ISO 178
Charpy impact strength (+23°C)	60	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	70	kJ/m ²	ISO 179/1eU

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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Charpy notched impact strength (+23°C)	10.5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10	kJ/m ²	ISO 179/1eA
Izod impact strength (+23°C)	55	kJ/m ²	ISO 180/1U
Izod notched impact strength (+23°C)	11.5	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	10.5	kJ/m ²	ISO 180/1A
Rockwell hardness, R scale	120	–	ISO 2039-2
Rockwell hardness, M scale	100	–	ISO 2039-2

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)	0.15	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.4	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, parallel, above Tg	0.15	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, normal, above Tg	1.1	E-4/°C	ISO 11359-1/-2

ELECTRICAL PROPERTIES

VALUE

Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	31	kV/mm	IEC 60243-1
Comparative tracking index	175	V	IEC 60112
Dissipation factor (5GHz)	55	E-4	IEC 61189-2-721
Relative permittivity (5GHz)	4	–	IEC 61189-2-721

OTHER PROPERTIES

VALUE

Density	1650	kg/m ³	ISO 1183
Humidity absorption	0.04	%	Sim. to ISO 62

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