

Xytron™ G4080HRE

PPS-I-GF40

Print Date: 2024-11-12

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>RHEOLOGICAL PROPERTIES</i>			
	<i>VALUE</i>		
Molding shrinkage (parallel)	0.2	%	ISO 294-4
Molding shrinkage (normal)	0.5	%	ISO 294-4
<i>MECHANICAL PROPERTIES</i>			
	<i>VALUE</i>		
Tensile modulus	13300	MPa	ISO 527-1/-2
Tensile modulus (120°C)	6100	MPa	ISO 527-1/-2
Tensile modulus (160°C)	4700	MPa	ISO 527-1/-2
Tensile modulus (200°C)	4000	MPa	ISO 527-1/-2
Stress at break	180	MPa	ISO 527-1/-2
Stress at break (120°C)	80	MPa	ISO 527-1/-2
Stress at break (160°C)	60	MPa	ISO 527-1/-2
Stress at break (200°C)	46	MPa	ISO 527-1/-2
Strain at break	2.4	%	ISO 527-1/-2
Strain at break (120°C)	4.1	%	ISO 527-1/-2
Strain at break (160°C)	4.3	%	ISO 527-1/-2
Strain at break (200°C)	3.9	%	ISO 527-1/-2
Flexural modulus	12200	MPa	ISO 178
Flexural strength	267	MPa	ISO 178
Flexural modulus (120°C)	5900	MPa	ISO 178
Flexural modulus (160°C)	4600	MPa	ISO 178
Flexural modulus (200°C)	4000	MPa	ISO 178
Charpy impact strength (+23°C)	60	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	65	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)	13	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12	kJ/m ²	ISO 179/1eA
Izod impact strength (+23°C)	60	kJ/m ²	ISO 180/1U
Izod notched impact strength (+23°C)	16	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	13	kJ/m ²	ISO 180/1A
Rockwell hardness, R scale	117	–	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)	266	°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)	0.48	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, parallel, above Tg	0.11	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, normal, above Tg	1.1	E-4/°C	ISO 11359-1/-2
Burning Behav. at 3.0 mm nom. thickn.	V-0	class	IEC 60695-11-10
UL recognition	Yes	–	–

ELECTRICAL PROPERTIES	VALUE		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	33	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)	3.8	–	IEC 61189-2-721

OTHER PROPERTIES	VALUE		
Density	1600	kg/m ³	ISO 1183

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