

Xytron™ M5710T

PPS—(GF+MD)

Flame Retardant, Enhanced Mechanical Strength, Excellent Dimensional Stability

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)	0.4	%	ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	19000	MPa	ISO 527-1/-2
Stress at break	170	MPa	ISO 527-1/-2
Stress at break (120°C)	105	MPa	ISO 527-1/-2
Stress at break (160°C)	75	MPa	ISO 527-1/-2
Strain at break	1.3	%	ISO 527-1/-2
Strain at break (120°C)	2.2	%	ISO 527-1/-2
Strain at break (160°C)	2.3	%	ISO 527-1/-2
Flexural modulus	18000	MPa	ISO 178
Flexural strength	280	MPa	ISO 178
Flexural modulus (120°C)	10000	MPa	ISO 178
Flexural modulus (160°C)	8000	MPa	ISO 178
Charpy impact strength (+23°C)	39	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8.8	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	9.8	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	VALUE		
Melting temperature (10°C/min)	280	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	276	°C	ISO 75-1/-2

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Coeff. of linear therm. expansion (parallel)	0.15	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.35	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	0.9	E-4/°C	ISO 11359-1/-2

<i>ELECTRICAL PROPERTIES</i>	<i>VALUE</i>		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	26	kV/mm	IEC 60243-1
Comparative tracking index	175	V	IEC 60112
Dissipation factor (5GHz)	50	E-4	IEC 61189-2-721
Relative permittivity (5GHz)	4.5	-	IEC 61189-2-721

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Density	1860	kg/m³	ISO 1183

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