Property Data

Envalior
Imagine the Future

Xytron™ M6510A

PPS–(GF+MD)65

65% Glass/Mineral Reinforced, Flame Retardant, Excellent Dimensional Stability

Print Date: 2023–11–24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Molding shrinkage (parallel)	0.3	%	ISO 294–4
Molding shrinkage (normal)	0.5	%	ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Tensile modulus	20000	MPa	ISO 527–1/–2
Tensile modulus (120°C)	11000	MPa	ISO 527–1/–2
Tensile modulus (160°C)	8900	MPa	ISO 527–1/–2
Tensile modulus (180°C)	8000	MPa	ISO 527–1/–2
Tensile modulus (200°C)	7700	MPa	ISO 527–1/–2
Stress at break	145	MPa	ISO 527–1/–2
Stress at break (120°C)	98	MPa	ISO 527–1/–2
Stress at break (160°C)	75	MPa	ISO 527–1/–2
Stress at break (180°C)	70	MPa	ISO 527–1/–2
Stress at break (200°C)	62	MPa	ISO 527–1/–2
Strain at break	1	%	ISO 527–1/–2
Strain at break (120°C)	1.7	%	ISO 527–1/–2
Strain at break (160°C)	2.4	%	ISO 527–1/–2
Strain at break (180°C)	2.5	%	ISO 527–1/–2
Strain at break (200°C)	2.5	%	ISO 527–1/–2
Flexural modulus	20000	MPa	ISO 178
Flexural strength	230	MPa	ISO 178
Flexural modulus (120°C)	14000	MPa	ISO 178
Flexural modulus (160°C)	9100	MPa	ISO 178

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Flexural modulus (200°C)	7000	MPa	ISO 178
Charpy impact strength (+23°C)	25	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	27	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	6.8	kJ/m²	ISO 179/1eA
Rockwell hardness, R scale	120	–	ISO 2039–2
Rockwell hardness, M scale	101	–	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)	277	°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)	0.27	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	0.75	E–4/°C	ISO 11359–1/–2
Burning Behav. at 1.5 mm nom. thickn.	V–0	class	IEC 60695–11–10
Thickness tested	1.5	mm	IEC 60695–11–10
UL recognition	Yes	–	–
Burning Behav. at 3.0 mm nom. thickn.	V–0	class	IEC 60695–11–10
Thickness tested	3	mm	IEC 60695–11–10
UL recognition	Yes	–	–
Relative Temperature Index – electrical	130	°C	UL746B
RTI electrical (Thickness (1) tested)	0.7	mm	UL746B
Thermal conductivity in plane	0.7	W/(m K)	ASTM E1461
Thermal conductivity through plane	0.7	W/(m K)	ASTM E1461

ELECTRICAL PROPERTIES	VALUE		
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
Electric strength	25	kV/mm	IEC 60243–1

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Comparative tracking index	225	V	IEC 60112
Dissipation factor (5GHz)	44	E–4	IEC 61189–2–721
Relative permittivity (5GHz)	5	–	IEC 61189–2–721

OTHER PROPERTIES	VALUE		
Density	1970	kg/m³	ISO 1183

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