

Xytron™ U1535E

PPS—I

Unreinforced, Extrusion

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	1550	MPa	ISO 527-1/-2
Stress at break	40	MPa	ISO 527-1/-2
Strain at break	>50	%	ISO 527-1/-2
Flexural modulus	1490	MPa	ISO 178
Flexural strength	60	MPa	ISO 178
Charpy impact strength (+23°C)	N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	68	kJ/m²	ISO 179/1eA
Charpy notched impact strength (−30°C)	20	kJ/m²	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)	95	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.07	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.16	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, parallel, above Tg	1.72	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, normal, above Tg	1.65	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB	class	IEC 60695-11-10
Thermal conductivity through plane	0.25	W/(m K)	ASTM E1461
ELECTRICAL PROPERTIES			
	VALUE		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1

Property Data

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OTHER PROPERTIES	VALUE		
Density	1200	kg/m³	ISO 1183