

Xytron™ U3020E

PPS-I

Extrusion, Improved Impact

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Molding shrinkage (parallel)	1.2	%	ISO 294-4
Molding shrinkage (normal)	1.3	%	ISO 294-4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	2850	MPa	ISO 527-1/-2
Yield stress	67	MPa	ISO 527-1/-2
Stress at break	60	MPa	ISO 527-1/-2
Strain at break	9	%	ISO 527-1/-2
Flexural modulus	2700	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Flexural modulus (120°C)	360	MPa	ISO 178
Flexural modulus (160°C)	240	MPa	ISO 178
Flexural modulus (200°C)	200	MPa	ISO 178
Charpy impact strength (+23°C)	N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	20	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3.5	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)	102	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.6	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.65	E-4/°C	ISO 11359-1/-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>
Coef. of lin. therm expansion, parallel, above Tg	1.1	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, normal, above Tg	1.4	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	V-0	class	IEC 60695-11-10

<i>ELECTRICAL PROPERTIES</i>	<i>VALUE</i>		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	41	kV/mm	IEC 60243-1
Dissipation factor (5GHz)	23	E-4	IEC 61189-2-721
Relative permittivity (5GHz)	3.2	-	IEC 61189-2-721

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Density	1290	kg/m³	ISO 1183

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