

Tufnyl™ SA102 Natural

PA6

Unreinforced, Injection Molding

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	2700 / –	MPa	ISO 527-1/-2
Stress at break	45 / –	MPa	ISO 527-1/-2
Strain at break	45 / –	%	ISO 527-1/-2
Yield stress	70 / –	MPa	ISO 527-1/-2
Yield strain	4 / –	%	ISO 527-1/-2
Flexural modulus	2200 / –	MPa	ISO 178
Flexural strength	100 / –	MPa	ISO 178
Charpy impact strength (+23°C)	100 / –	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / –	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	60 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	150 / *	°C	ISO 75-1/-2
OTHER PROPERTIES			
	DRY / COND		
Water absorption	9 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1120 / –	kg/m³	ISO 1183

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