

Novamid[®] ST120 NAT

PA6-I

Impact Modified, Injection Molding

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	1.5 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	2 / *	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	1900 / -	MPa	ISO 527-1/-2
Yield stress	45 / -	MPa	ISO 527-1/-2
Yield strain	4.2 / -	%	ISO 527-1/-2
Nominal strain at break	30 / >50	%	ISO 527-1/-2
Flexural modulus	1700 / -	MPa	ISO 178
Flexural strength	66 / -	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	42 / N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	15.5 / -	kJ/m ²	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)	53 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	87 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.4 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1 / *	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
	DRY / COND		
Relative permittivity (100Hz)	4 / -	-	IEC 62631-2-1

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Relative permittivity (1 MHz)	3 / –	–	IEC 62631-2-1
Dissipation factor (100 Hz)	100 / –	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	180 / –	E-4	IEC 62631-2-1
Volume resistivity	9E12 / –	Ohm*m	IEC 62631-3-1
Surface resistivity	– / 3E13	Ohm	IEC 62631-3-2
Electric strength	29 / –	kV/mm	IEC 60243-1
Comparative tracking index	600 / –	V	IEC 60112
<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1070 / –	kg/m ³	ISO 1183

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