

# Novamid<sup>®</sup> ST145 NAT

## PA6-I

Impact Modified, Injection Molding

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage [parallel]	1.8 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	2.2 / *	%	Sim. to ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	1000 / 400	MPa	ISO 527-1/-2
Yield stress	30 / 20	MPa	ISO 527-1/-2
Yield strain	4.4 / 20	%	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Flexural modulus	1100 / 420	MPa	ISO 178
Flexural strength	39 / 20	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	100 / N	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	50 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	62 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1 / *	E-4/°C	ISO 11359-1/-2
<b>ELECTRICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Relative permittivity (100Hz)	3 / -	-	IEC 62631-2-1
Relative permittivity (1 MHz)	3 / -	-	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>
Dissipation factor (100 Hz)	100 / –	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	130 / –	E-4	IEC 62631-2-1
Volume resistivity	9E12 / –	Ohm*m	IEC 62631-3-1
Surface resistivity	– / 2E13	Ohm	IEC 62631-3-2
Electric strength	33 / –	kV/mm	IEC 60243-1
Comparative tracking index	600 / –	V	IEC 60112
 <i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1020 / –	kg/m <sup>3</sup>	ISO 1183

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