

Novamid® ST145 NAT

PA6-I

Impact Modified, Injection Molding

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage [parallel]	1.8 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	2.2 / *	%	Sim. to ISO 294-4
Mechanical properties			
	dry / cond		
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 ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	100 / N	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)	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
Electrical properties			
	dry / cond		
Relative permittivity (100Hz)	3 / -	-	IEC 60250
Relative permittivity (1 MHz)	3 / -	-	IEC 60250

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Dissipation factor (100 Hz)	100 / -	E-4	IEC 60250
Dissipation factor (1 MHz)	130 / -	E-4	IEC 60250
Volume resistivity	9E12 / -	Ohm*m	IEC 60093
Surface resistivity	* / 2E13	Ohm	IEC 60093
Electric strength	33 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112
Other properties	dry / cond		
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1020 / -	kg/m ³	ISO 1183