

# Novamid<sup>®</sup> 1010N2 1ES

## PA6 FR

Flame Retardant (halogen free)

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>RHEOLOGICAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Molding shrinkage (parallel)	1 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
<b><i>MECHANICAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Tensile modulus	3600 / 1800	MPa	ISO 527-1/-2
Yield stress	80 / 50	MPa	ISO 527-1/-2
Yield strain	4.8 / 16.6	%	ISO 527-1/-2
Flexural modulus	3600 / 1800	MPa	ISO 178
Flexural strength	120 / 55	MPa	ISO 178
Charpy impact strength (+23°C)	90 / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / 10	kJ/m <sup>2</sup>	ISO 179/1eA
<b><i>THERMAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	224 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	70 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	192 / *	°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)	0.7 / *	E-4/°C	ISO 11359-1/-2
<b><i>ELECTRICAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Relative permittivity (1 MHz)	4 / -	-	IEC 62631-2-1
Dissipation factor (1 MHz)	200 / -	E-4	IEC 62631-2-1
Volume resistivity	1E12 / -	Ohm*m	IEC 62631-3-1

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Surface resistivity	2E14 / –	Ohm	IEC 62631-3-2
Electric strength	26 / –	kV/mm	IEC 60243-1
Comparative tracking index	550 / –	V	IEC 60112
<b><i>OTHER PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Density	1160 / –	kg/m <sup>3</sup>	ISO 1183