

**Product Texts**

Injection Molding, Flame Retardant (halogen free)

ISO 1043 PA6 FR(30)

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	40 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	230 / *	°C	-
Load	2.16 / *	kg	-
Melt flow index, MFI	41	g/10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	1.0 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577

[C]: CAMPUS

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	3600 / 1500	MPa	ISO 527
<sup>[C]</sup> Yield stress	* / 50	MPa	ISO 527
<sup>[C]</sup> Yield strain	* / 22	%	ISO 527
<sup>[C]</sup> Nominal strain at break	* / >50	%	ISO 527
<sup>[C]</sup> Stress at break	80 / *	MPa	ISO 527
<sup>[C]</sup> Strain at break	3.2 / *	%	ISO 527
Flexural modulus, 23°C	3600 / 1400	MPa	ISO 178
<sup>[C]</sup> Charpy impact strength, +23°C	90 / N	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	3 / 12	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	70 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	192 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	60 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	60 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
<sup>[C]</sup> Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	4 / -	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	4 / -	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	80 / -	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	190 / -	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	>1E13 / -	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	* / 2E14	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	26 / -	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	575 / -	-	IEC 60112

[C]: CAMPUS

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<sup>[C]</sup> Humidity absorption	3 / *	%	Sim. to ISO 62

**Novamid® 1010N2**

PA6 FR(30)

Envalior

[C] Density

**1160 / -**kg/m<sup>3</sup>

ISO 1183

[C]: CAMPUS

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Flame retardant, Halogen-free

**Delivery form**

Pellets

**Regional Availability**

North America, Europe, Asia Pacific

**Additives**

Release agent

**Other text information****Injection molding**[Injection Molding Recommendations](#)[Steel recommendations for molds screws and barrels](#)[Trouble shooting guideline for injection molding](#)