

Product Texts

Flame Retardant (halogen free)

ISO 1043 PA6 FR

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	39 / *	cm ³ /10min	ISO 1133
Temperature	230 / *	°C	-
Load	2.16 / *	kg	-
Melt flow index, MFI	40	g/10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
^[C] Molding shrinkage, parallel	1.0 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
^[C] Density of melt	26	kg/m ³	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3600 / 1800	MPa	ISO 527
^[C] Yield stress	80 / 50	MPa	ISO 527
^[C] Yield strain	4.8 / 16.6	%	ISO 527
Nominal strain at break	5 / 196	%	ISO 527
Flexural modulus, 23°C	3600 / 1400	MPa	ISO 178
^[C] Charpy impact strength, +23°C	90 / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	3 / 10	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	224 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	70 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	192 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	60 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	70 / *	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	4 / -	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	4 / -	-	IEC 62631-2-1
Dissipation factor, 100Hz	100 / -	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	200 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E12 / -	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 2E14	Ohm	IEC 62631-3-2
^[C] Electric strength	26 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	550 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
Humidity absorption	3 / *	%	Sim. to ISO 62
^[C] Density	1160 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Novamid® 1010N2 1ES

PA6 FR

Envalior

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Flame retardant, Halogen-free

Other text information

Injection molding

[Injection Molding Recommendations](#)