

Novamid[®] 1010GN2-20 NAT/BK37

PA6-GF20 FR(17)

20% Glass Reinforced, Flame Retardant

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	9200 / -	MPa	ISO 527-1/-2
Stress at break	135 / -	MPa	ISO 527-1/-2
Strain at break	2.1 / -	%	ISO 527-1/-2
Flexural modulus	7700 / 6000	MPa	ISO 178
Flexural strength	205 / 165	MPa	ISO 178
Charpy impact strength (+23°C)	38 / 55	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / 11	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)	205 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7 / *	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
	DRY / COND		
Relative permittivity (1 MHz)	4 / -	-	IEC 62631-2-1
Dissipation factor (1 MHz)	200 / -	E-4	IEC 62631-2-1
Volume resistivity	8E12 / -	Ohm*m	IEC 62631-3-1

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Surface resistivity	– / 8E12	Ohm	IEC 62631–3–2
Electric strength	23 / –	kV/mm	IEC 60243–1
Comparative tracking index	225 / –	V	IEC 60112
<i>OTHER PROPERTIES</i>		<i>DRY / COND</i>	
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1540 / –	kg/m ³	ISO 1183

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