Advanced Polymer TENSURE
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TENYMID N2GF13FR

Product Description PA66 with 13%GF reinforced, frame retardant, used for the automotive industry, Electrical and Electronics and consumer applications.
Material Status Commercial: Active.
Availability Africa & Middle East, Asia Pacific, Europe, Latin America, North America.
Features High rigidity, high mechanical strength, high impact and easy processing with good appearance .
Processing Method Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific gravity	1.41	g/cm³	ISO 1183
Water absorption, 23℃, 24h	4.5	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile modulus	5700	MPa	ISO 527
Tensile strength, break	111	MPa	ISO 527
Flexural modulus	6000	MPa	ISO 178
Flexural strength	157	MPa	ISO 178
Tensile elongation, break	3.6	%	ISO 527
Charpy impact strength, notched, +23℃	8	KJ/㎡	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
HDT, 1.8 MPa under load	230	°C	ISO 75
HDT, 0.45 MPa under load	245	°C	ISO 75
CLTE(Transverse/parallel)	2.7/8.6	10^{-4}/K	ISO 11359
Thermal conductivity	0.37	W/(m•k)	DIN 52612
Flammability	**Nominal Value**	**Unit**	**Test Method**
According UL standard	3.15	mm	UL-94 V0
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric constant ,100 Hz	3.7		IEC 60250
Dissipation factor,100 Hz	0.006		IEC 60250
Volume resistivity	10^{13}	Ω•m	IEC 60093
Surface resistivity	10^{14}	Ω	IEC 60093
Injection	**Nominal Value**	**Unit**	
Melting point, DSC	260	°C	DIN 53765
MVR, 275/5	19	cm³/10min	ISO 1133
Melt temperature range, Injection molding	280-305	°C	
Mold temperature range, Injection	80-90	°C	

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Disclaimer

Sales products:

This information and technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved.

Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating TENSURE materials or products will be safe and suitable for use under end-use conditions.

Our products are sold and our advisory service is given in accordance with the current version of our General Conditions of Sale and Delivery.

Test figures:

Above figures were measured under the condition of 23 ℃ and RH 50% base on injection molded specimens .They are typical figures, not specifications.

Kindly note that, under certain conditions,

The properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and coloring.

To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace.

The prescribed processing temperatures should not be substantially exceeded.

Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.