

LATAMID 66 H2 G/25-V0KB1

Polyamide 66 (PA66) based compound.

Heat stabilised. Glass fibres. UL94 V-0 classified, with red phosphorous.

PHYSICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Density	ISO 1183	1.32 g/cm ³
Linear shrinkage at moulding		
Longitudinal (2.0mm/60MPa)	ISO 294-4	0.35 ÷ 0.65 %
Transversal (2.0mm/60MPa)	ISO 294-4	0.75 ÷ 1.05 %
Dimensional stability		50
Moisture absorption (in air)		
after 24hrs	ISO 62-4	0.27 %
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
CHARPY impact strength	•	
Unnotched, at +23°C	ISO 179-1eU	55.0 kJ/m²
Notched, at +23°C	ISO 179-1eA	8.0 kJ/m²
Tensile elongation		,
At yield (5 mm/min), 23°C	ISO 527 (1)	-
At yield (5 mm/min), 60°C	ISO 527 (1)	-
At yield (5 mm/min), 90°C	ISO 527 (1)	4.5 %
At yield (5 mm/min), 120°C	ISO 527 (1)	4.8 %
At yield (5 mm/min), 150°C	ISO 527 (1)	5.5 %
At break (5 mm/min), 23°C	ISO 527 (1)	3.1 %
At break (5 mm/min), 60°C	ISO 527 (1)	4.9 %
At break (5 mm/min), 90°C	ISO 527 (1)	7.2 %
At break (5 mm/min), 120°C	ISO 527 (1)	7.8 %
At break (5 mm/min), 150°C	ISO 527 (1)	8.3 %
Tensile strength		
At yield (5 mm/min), 23°C	ISO 527 (1)	-
At yield (5 mm/min), 60°C	ISO 527 (1)	-
At yield (5 mm/min), 90°C	ISO 527 (1)	85 MPa
At yield (5 mm/min), 120°C	ISO 527 (1)	65 MPa
At yield (5 mm/min), 150°C	ISO 527 (1)	55 MPa
At break (5 mm/min), 23°C	ISO 527 (1)	145 MPa
At break (5 mm/min), 60°C	ISO 527 (1)	115 MPa
At break (5 mm/min), 90°C	ISO 527 (1)	80 MPa
At break (5 mm/min), 120°C	ISO 527 (1)	65 MPa
At break (5 mm/min), 150°C	ISO 527 (1)	55 MPa
Elastic modulus		
Tensile (speed 1 mm/min), at 23°C	ISO 527 (1)	8400 MPa
Tensile (speed 1 mm/min), at 60°C	ISO 527 (1)	7100 MPa
Tensile (speed 1 mm/min), at 90°C	ISO 527 (1)	4800 MPa
Tensile (speed 1 mm/min), at 120°C	ISO 527 (1)	4000 MPa
Tensile (speed 1 mm/min), at 150°C	ISO 527 (1)	3300 MPa



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STANDARD	VALUE MEASURE UNITS
STAINDAIND	VALUE HEASONE ON 13
ISO 11359-2	50 μm/(m·°C)
	50 p, (5)
ISO 306	245 °C
ISO 75	255 °C
ISO 75	235 °C
ASTM E1641/E1877	125 °C
STANDARD	VALUE MEASURE UNITS
ASTM D 2863	27 %
UL 94	V-0
UL 94	V-0
UL 94	НВ
IEC 60695-2-12	960°C/1mm
IEC 60695-2-12	960°C/2mm
IEC 60695-2-13	750°C/1mm
IEC 60695-2-13	750°C/2mm
STANDARD	VALUE MEASURE UNITS
IEC 60112	400 V
ASTM D 257	1E12 ohm
	ISO 306 ISO 75 ISO 75 ISO 75 ASTM E1641/E1877 STANDARD ASTM D 2863 UL 94 UL 94 UL 94 UL 94 IEC 60695-2-12 IEC 60695-2-12 IEC 60695-2-13 IEC 60695-2-13 IEC 60695-2-13 IEC 60695-2-13 IEC 60695-2-13



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MATERIAL - STORAGE

Sealed, undamaged packages has to be kept in dry storage facilities, providing they are also able to protect them from weather and accidental damage.

HANDLING AND SAFETY

Detailed information about a safe treatment of the material are indicated in the "Material Safety Data Sheet" (MSDS) furnished with the first material supply. The MSDS may be also sent again in case of loss.

PREDRYING CONDITIONS

At least 3 hours at 90 ÷ 100°C

These are the suggested conditions to reduce the moisture content to adequate levels. Temperature and drying time can be reduced by using vacuum ovens. Particularly wet material may need a longer drying time.

ACTUAL MELT TEMPERATURE

270 ÷ 290°C

The injection moulding machine settings needed to obtain the suggested melt temperature will depend greatly on shot size and machine capacity, as well as other moulding parameters such as: injection speed, screw RPM, back pressure, etc. On small machines, running short cycles, it is possible to use higher melt temperatures to improve plastification, fluidity and surface appearance, paying attention to any indication of material degradation.

MOULD TEMPERATURE

70 ÷ 100°C

The mould temperature suggested above is the actual tool steel temperature. This can be significantly different from the tool settings, due to the cooling system efficiency and the accuracy of the temperature control on the tool.

INJECTION SPEED Medium

The advisable injection speed greatly depends on cavity geometry and injection moulding machine size. The use of high injection speed can improve the surface appearance, but it can also cause outgassing and burn marks due to overheating through shear stress.

REGRIND USAGE

The use of regrind is possible, but should be assessed on the basis of the project, moulding parameters, and type of grinding used. The effect of using regrind on material properties must be evaluated by the customer on its specific project and process. High percentages of regrind may cause a reduction in viscosity and fibre length, reducing mechanical properties, first resilience. According to UL guideline, up to 25% of regrind is permitted, without affecting the ratings of the yellow card. However, LATI suggests that no more of 15% of regrind is used.

HOT RUNNER MOULDS

Hot runner moulds are not recommended, but they may be used when a very tight temperature control is assured, overall in the gate(s), and the cycle time is short.



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TO AVOID

Shut-off nozzles and internally heated hot runners have to be avoided. In order to prevent any material degradation, over-dimensioned machines should be avoided.

NOTES

The products mentioned herein are not suitable for applications in contact with foodstuff or for potable water transportation, or for toy manufacturing. The products mentioned herein are not suitable for applications in the pharmaceutical, medical or dental sector. The products mentioned herein must not be used to produce parts operating in hot (>70°C), very humid environments, or in contact with hot water, or in contact with overheated steam.

APPROVALS

USA (UL): Product versions approved according UL recommendations are available.

CONTACTS

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Values shown are based on testing of injection moulded laboratory test specimens, conditioned according to the standard and represent data that fall within the standard range of properties for non-coloured material, if not otherwise specified. As they may be subject to variations, these values do not represent a sufficient basis for any part design and are not intended for use in establishing values for specification purposes. Properties of moulded parts can be influenced by a wide range of factors including, but not limited to, colorants, part design, processing conditions, environmental conditions, and usage of regiring during the moulding process. If data are explicitly indicated as provisional, range of properties is be to considered wider. This information and technical information is a true as a subject to change without notice. The customer's half always ensure that the latest releases of technical information is purposes from a subject to change without notice. The customer's new manufacture are used to the product, and makes no responsibility to insepret and test or products in order to determine to its own a for any printing errors. It is the customer's reportability for insepted and test our products in order to determine to its own additional town and the customer's pericular purpose from a technical as well as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us a standard and the purpose to which utilizes our products are beyond our control. Lall S.p.d. does not accept and hereby disclaims lability for any damages whatsoever in connection with the usual or reliance on this information. No one is authorised to make any warranties; issue any immunities or assume any liabilities on their manufacture of the purchase price at Lall's option, and in no event shall Lall S.p.A. be faited for supposed from a submitted for any submitted for any submitted for any submitted for any damages. No information herein can be considered as a suggestion to use any prod

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