

B96 LN

ISSUED: 08/02/2023 ISO 9001 CERTIFIED

Terylene B96 LN is a medium viscosity unreinforced PBT injection moulding grade. Lubricated and Nucleated.

PROPERTIES	CONDITIONS	TEST METHOD	UNITS	VALUES
PHYSICAL PROPERTIES				
Density	23 °C	ISO 1183	g/cm ³	1,30
Moisture absorption	23 °C / 50% r.h.	ISO 62	%	0,25
Water absorption	23 °C / saturation in water	ISO 62	%	0,5
PROCESSING CONDITIONS				
Melt Volume rate	250°C/2,16 kg	ISO 1133	cm ³ /10 min	20
Intrinsic Viscosity		ISO 1628		1,1
Melt temperature, injection moulding			°C	240-280
Mould temperature			°C	40-80
Moulding Shrinkage	longitudinal transversal		%	1,3 1,6
MECHANICAL PROPERTIES				
Tensile modulus	23 °C, 1 mm/min	ISO 527-1-2	MPa	2.700
Tensile strength	23 °C, 50 mm/min	ISO 527-1-2	MPa	60
Nominal Elongation at break	23 °C, 50 mm/min	ISO 527-1-2	%	> 25
Flexural modulus	23 °C, 2 mm/min	ISO 178	MPa	2.400
Flexural strength	23 °C, 2 mm/min	ISO 178	MPa	90
Charpy unnotched impact strength	23°C	ISO 179/1eU	kJ/m²	205
Charpy notched impact strength	23°C	ISO 179/1eA	kJ/m²	4,5
THERMAL PROPERTIES				
Melting temperature (DSC)	10°C/min	ISO 3146	°C	223
Heat Deflection Temperature (HDT)	1,8 MPa 0,45 MPa	ISO 75-1-2	°C	60 180
Thermal coefficient of linear expansion	23-80°C long.	ISO 11359-1/-2	10 ⁻⁴ /K	1,3-1,6
ELECTRICAL PROPERTIES				
Dielectric constant	1MHz	IEC 60250		3,3
Dissipation factor	1 MHz	IEC 60250		200
Volume resistivity		IEC 60093	$\Omega.m$	>1013
Surface resistivity		IEC 60093	Ω	10 ¹³
Comparative tracking index		IEC 60112		550







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CHARACTERISTICS

Terylene B96 LN is a medium viscosity PBT injection moulding grade, with good processability for technical components in the **electrical** and **automotive sectors**.

APPLICATIONS

Terylene B96 LN is used in a wide range of applications where a combination of mechanical properties, thermal resistance and dimensional stability are needed. Typical applications include industrial parts such as head lamp bezels, housings, covers and electrical insulating parts.

FORMAT AND STORAGE

Terylene B96 LN is supplied in moisture-proof packaging. Typical formats are Big Bag, octavin, and 25kg bags. All containers are perfectly sealed. The product should be stored in a dry place and opened just before processing.

PROCESSING GUIDELINES

Drying

Max. Water content: 0,04%

To ensure optimum part performance, this product should be dried prior to moulding and maintained at a moisture level of less than 0,04%. Dehumidifying dryers operating at 100-120°C for 4 hours drying time are recommended.

Injection moulding

The recommended processing parameters for injection moulding are:

Melt temperature: 240-280°C Mould temperature: 40-80 °C

Injection speed: high Back pressure: moderate

NOTE

All recommendations are based on knowledge and experience; The values have been established on standardized tests. The figures should be regarded as guide values and not as binding minimum values. As many factors may affect processing or applications, we recommend that customers make their own tests to determine the suitability of a product for its particular use.

