

ISSUED: 17/11/2022

ISO 9001 CERTIFIED

**Terylene B56S P2 G30 BL01** is a **PBT/ASA/PET** blend, injection moulding grade, 30% glass fiber reinforced. Black colour. Low-warpage and great dimensional stability.

PROPERTIES	CONDITIONS	TEST METHOD	UNITS	VALUES
<b>PHYSICAL PROPERTIES</b>				
Density	23 °C	ISO 1183	g/cm <sup>3</sup>	1,48
Moisture absorption	23 °C / 50% r.h.	ISO 62	%	0,2
Water absorption	23 °C / saturation in water	ISO 62	%	0,4
Flammability	1,5 mm	UL-94		HB
<b>PROCESSING CONDITIONS</b>				
Melt Volume rate	275°C/2,16 kg	ISO 1133	cm <sup>3</sup> /10 min	12
Melt temperature, injection moulding			°C	260-290
Mould temperature			°C	80-120
Moulding Shrinkage	longitudinal transversal		%	0,25 0,75
<b>MECHANICAL PROPERTIES</b>				
Tensile modulus	23 °C, 1 mm/min	ISO 527-1-2	MPa	9.500
Tensile strength	23 °C, 50 mm/min	ISO 527-1-2	MPa	125
Elongation at break	23 °C, 50 mm/min	ISO 527-1-2	%	2,5
Flexural modulus	23 °C, 2 mm/min	ISO 178	MPa	8.000
Flexural strength	23 °C, 2 mm/min	ISO 178	MPa	160
Charpy unnotched impact strength	23°C -30°C	ISO 179/1eU	kJ/m <sup>2</sup>	55 -
Charpy notched impact strength	23°C -30°C	ISO 179/1eA	kJ/m <sup>2</sup>	8 -
<b>THERMAL PROPERTIES</b>				
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	215 220
Thermal coefficient of linear expansion	23-80°C long.	ISO 11359-1/-2	10 <sup>-4</sup> /K	0,25
<b>ELECTRICAL PROPERTIES</b>				
Dielectric constant	1MHz	IEC 60250		3,8
Dissipation factor	1 MHz	IEC 60250		170
Volume resistivity		IEC 60093	Ω.m	>10 <sup>13</sup>
Surface resistivity		IEC 60093	Ω	10 <sup>13</sup>
Comparative tracking index		IEC 60112		425

#### CHARACTERISTICS

**Terylene B56S P2 G30 BL01** is a **PBT/ASA/PET** blend, injection moulding grade, reinforced with 30% glass for rigid, high stiffens and dimensional stable parts. **Very low-warpage. Black colour.**

#### APPLICATIONS

**Terylene B56S P2 G30 BL01** is used in a wide range of applications where a combination of mechanical properties, thermal resistance and **dimensional stability & low-warpage are needed.**

Glass-fibre reinforced grades are suitable for housings, supports, covers, consoles and electrical insulating parts.

#### FORMAT AND STORAGE

**Terylene B56S P2 G30 BL01** 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: 260-290°C

Mould temperature: 80-120 °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.