

TORZEN G5002HSL NC01

Material Code

Colour Code

DESCRIPTION

PA66 50% glass fiber reinforced injection moulding grade. Heat stabilized. Natural colour.

Suitable for parts requiring very high stiffness and mechanical resistance, along with good heat ageing properties retention.

ISO 1043 : PA66-T GF50

MATERIAL HANDLING AND PROCESSING

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.15%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more.

Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

Processing Parameters

Melt Temperature:	Mold Temperature:	Injection Speed:
280 ÷ 300 °C	80 ÷ 100 °C	Medium-high

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet

RoHS compliant 2011/65/UE and following amendments



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PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
Physical Properties				
Density	ISO 1183	Kg/m ³	1570	
Moulding shrinkage – Parallel / Normal	ISO 294-4	%	0,2-0,3 / 0,8-0,9	
Moisture absorption 23°C – 50%RH	ISO 62	%	1,1	
Water absorption, 24h immersion at 23°C	ISO 62	%	0,65	
Mechanical Properties				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	16900
Stress at Break	5mm/min	ISO 527-2/1A	MPa	247
Strain at Break	5mm/min	ISO 527-2/1A	%	2,4
Flexural Modulus	2mm/min	ISO 178	MPa	16700
Flexural Strength	2mm/min	ISO 178	MPa	350
Charpy Impact Strength	+23°C	ISO 179/1 eU	kJ/m ²	126
Charpy Impact Strength	-30°C	ISO 179/1 eU	kJ/m ²	100
Charpy Notched Impact Strength	+23°C	ISO 179/1 eA	kJ/m ²	16
Charpy Notched Impact Strength	-40°C	ISO 179/1 eA	kJ/m ²	14
Izod Notched Impact Strength	+23°C	ISO 180/1 eA	kJ/m ²	13
Thermal Properties				
Melting Temperature	10°C/min	ISO 11357-1-3	°C	262
Heat Deflection Temperature	1.8 MPa	ISO 75/2 A f	°C	255
Heat Deflection Temperature	0.45 MPa	ISO 75/2 B f	°C	260

*DAM = Dry As Moulded state **Cond = Conditioned state similar to ISO 1110 ***Melt Temp [°C] / Mold Temp [°C] / Cavity press [MPa]

