

# TORZEN G3300HS1L NC01

Material Code      Colour Code

## DESCRIPTION

PA66 33% glass fiber reinforced injection moulding grade. Heat stabilized. Natural colour.

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

ISO 1043 : PA66-T GF33

## 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

**TECHNICAL DATA SHEET**

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PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
<b>Physical Properties</b>				
Density	ISO 1183	Kg/m <sup>3</sup>	1410	
Moulding shrinkage – Parallel / Normal	ISO 294-4	%	0,3-0,4 / 0,9-1,1	
Moisture absorption 23°C – 50%RH	ISO 62	%	1,8	
Water absorption, 24h immersion at 23°C	ISO 62	%	1,2	
<b>Mechanical Properties</b>				
Tensile Modulus	ISO 527-2/1A	MPa	10500	
Stress at Break	ISO 527-2/1A	MPa	205	
Strain at Break	ISO 527-2/1A	%	3,1	
Flexural Modulus	ISO 178	MPa	9500	
Flexural Strength	ISO 178	MPa	285	
Charpy Notched Impact Strength	ISO 179/1 eA	kJ/m <sup>2</sup>	12	
Charpy Notched Impact Strength	ISO 179/1 eA	kJ/m <sup>2</sup>	10	
Izod Notched Impact Strength	ISO 180/1 eA	kJ/m <sup>2</sup>	12	
<b>Thermal Properties</b>				
Melting Temperature	ISO 11357-1-3	°C	262	
Heat Deflection Temperature	ISO 75/2 A f	°C	248	
Heat Deflection Temperature	ISO 75/2 B f	°C	255	

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