torzen®

HIGH PERFORMANCE POLYMERS

RADICI GROUP

# RadiciGroup compounds based on PA66

PA66-based compounds, targeted at different sectors such as Automotive, Electrical&Electronics, Consumer and Industrial Goods.

PA66 **Glass reinforced**

| Material | Brief Description | Applicative Description |
|---|---|---|
| **Torzen® G1500HSL BK34** | PA66 15% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour. | Suitable for parts requiring improved stiffness. |
| **Torzen® G3000HR BK34** | PA66 30% glass fiber reinforced injection moulding grade. Heat stabilized, hydrolysis resistance. Black colour. | Suitable for parts requiring high stiffness and good mechanical resistance. |
| **Torzen® G3000HR NC01** | PA66 30% glass fiber reinforced injection moulding grade. Heat stabilized, hydrolysis resistance. Natural colour. | Suitable for parts requiring high stiffness and good mechanical resistance. |
| **Torzen® G3000HS1L NC01** | PA66 30% 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. |
| **Torzen® G3000HSL BK34** | PA66 30% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour. | Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention. |
| **Torzen® G3001HR BK34** | PA66 30% glass fiber reinforced injection moulding grade. Heat stabilized, hydrolysis resistance. Black colour. | Suitable for parts requiring high stiffness and good mechanical resistance. |
| **Torzen® G3300HR BK34** | PA66 33% glass fiber reinforced injection moulding grade. Heat stabilized, hydrolysis resistance. Black colour. | Suitable for parts requiring high stiffness and good mechanical resistance. |
| **Torzen® G3300HS1L NC01** | 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. |
| **Torzen® G3300HSL BK20** | PA66 33% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour. | Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention. |
| **Torzen® G3300HSLF BK20** | PA66 33% glass fiber reinforced injection moulding grade. Good flowability, heat stabilized. Black colour. | Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention. |
| **Torzen® G3301HSL BK20** | PA66 33% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour. | Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention. |
| **Torzen® G3302HSL BK20** | PA66 33% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour. | Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention. |
| **Torzen® G3500HR BK34** | PA66 35% glass fiber reinforced injection moulding grade. Heat stabilized, hydrolysis resistance. Black colour. | Suitable for parts requiring medium stiffness and good mechanical resistance. |
| **Torzen® G3500HSL BK20** | PA66 35% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour. | Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention. |
| **Torzen® G4001HSL BK01** | PA66 40% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour. | Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention. |
| **Torzen® G5000HR BK34** | PA66 50% glass fiber reinforced injection moulding grade. Heat stabilized, high hydrolysis resistance. Black colour. | Suitable for parts requiring very high stiffness and good mechanical resistance. Particularly fit to work in contact with automotive cooling circuit liquids. |
| **Torzen® G5000HSL K01** | PA66 50% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour. | Suitable for parts requiring very high stiffness and mechanical resistance, along with good heat ageing properties retention. |
| **Torzen® G5002HSL NC01** | 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. |
| **Torzen® GM3800HSL BK20** | PA66 38% glass fiber and mineral filler reinforced injection moulding grade. Heat stabilized. Black colour. | Suitable for parts requiring improved stiffness and mechanical strength, reduced shrinkage, low warpage. |

## PA66 **Glass reinforced and toughened**

| Material | Brief Description | Applicative Description |
|---|---|---|
| **Torzen® GT1400HSL BK20** | PA66 14% glass fiber reinforced injection moulding grade. Toughened, lubricated and heat stabilized. Black colour. | Suitable for parts requiring improved impact strength along with enhanced stiffness. A typical application are anti-vibration rings. |
| **Torzen® GT3300HS1L NC01** | PA66 33% glass fiber reinforced injection moulding grade. Toughened, heat stabilized. Natural colour. | Suitable for parts requiring improved impact strength along with enhanced stiffness. |
| **Torzen® GT3300HSL BK20** | PA66 33% glass fiber reinforced injection moulding grade. Toughened, heat stabilized. Black colour. | Suitable for parts requiring improved impact strength along with enhanced stiffness. |

## PA66 **Mineral filled**

| Material | Brief Description | Applicative Description |
|---|---|---|
| **Torzen® M1500HS GR01** | PA66 15% mineral filled injection moulding grade. Heat stabilized. Black colour. | Suitable for parts requiring good dimensional stability, reduced shrinkage and low warpage. |

## PA66 **High Temperature**

| Material | Brief Description | Applicative Description |
|---|---|---|
| **Torzen® Marathon FRG2500XHL NC01** | PA66 flame retardant injection moulding grade. 25% glass fiber reinforced. Improvement of mechanical properties retention versus standard polyamide 66 after heat ageing. | Suitable for parts requiring fire retardancy, medium stiffness and good mechanical resistance. Rated V-0 according to UL-94. |
| **Torzen® Marathon FRU4800XHL BK01** | PA66 flame retardant injection moulding grade. Improvement of mechanical properties retention versus standard polyamide 66 after heat ageing Halogen and phosphorus free. Black colour. | Suitable for parts where fire retardancy is required. Rated V-0 at 0.4 mm according to UL-94. |
| **Torzen® Marathon G3000XHL BK20** | PA66 30% glass fiber reinforced injection molding grade with enhanced thermal resistance in contact with hot air. High improvement of mechanical properties retention versus standard polyamide 66 after heat ageing. Black colour. | Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention. |
| **Torzen® Marathon G3500XHL BK34** | PA66 35% glass fiber reinforced injection molding grade with enhanced thermal resistance in contact with hot air. High improvement of mechanical properties retention versus standard polyamide 66 after heat ageing. Black colour. | Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention. |
| **Torzen® Marathon G4000XHL BK20** | PA66 40% glass fiber reinforced injection molding grade with enhanced thermal resistance in contact with hot air. High improvement of mechanical properties retention versus standard polyamide 66 after heat ageing. Black colour. | Suitable for parts requiring high stiffness, good mechanical resistance and good heat ageing properties retention. |
| **Torzen® Marathon G3001HR BK34** | PA66 50% glass fiber reinforced injection molding grade with enhanced thermal resistance in contact with hot air. High improvement of mechanical properties retention versus standard polyamide 66 after heat ageing. Black colour. | Suitable for parts requiring very high stiffness and mechanical resistance, along with good heat ageing properties retention. |

## PA66 **Toughenedd**

| Material | Brief Description | Applicative Description |
|---|---|---|
| **Torzen® T2000HSL BK20** | PA66 injection moulding grade. Toughened, heat stabilized. Black colour. | Suitable for parts requiring good impact resistance and improved surface appearance. Good properties retention after ageing. |
| **Torzen® T3000HS1L BK20** | PA66 injection moulding grade. Toughened, heat stabilized. High flowability. Black colour. | Suitable for parts requiring good impact resistance and improved surface appearance. Good properties retention after ageing. |
| **Torzen® T3000HS1L NC01** | PA66 injection moulding grade. Toughened, heat stabilized. High flowability. Natural colour. | Suitable for parts requiring good impact resistance and improved surface appearance. Good properties retention after ageing. |
| **Torzen® T3000HSL BK20** | PA66 injection moulding grade. Toughened, heat stabilized. Black colour. | Suitable for parts requiring good impact resistance and improved surface appearance. Good properties retention after ageing. |



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Feb/2024