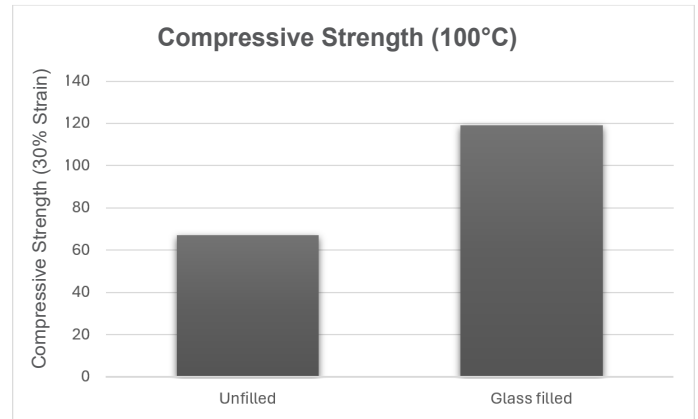


NYLACAST GLASS FILLED

An engineered Nylon 6 grade reinforced with precision glass microspheres to deliver enhanced stiffness, dimensional stability, and weight reduction while retaining the toughness, durability, and wear resistance associated with conventional PA6. The spherical reinforcement distributes stresses more uniformly throughout the material, helping to reduce warpage, minimize moulding shrinkage variation, and improve dimensional consistency in complex moulded parts.

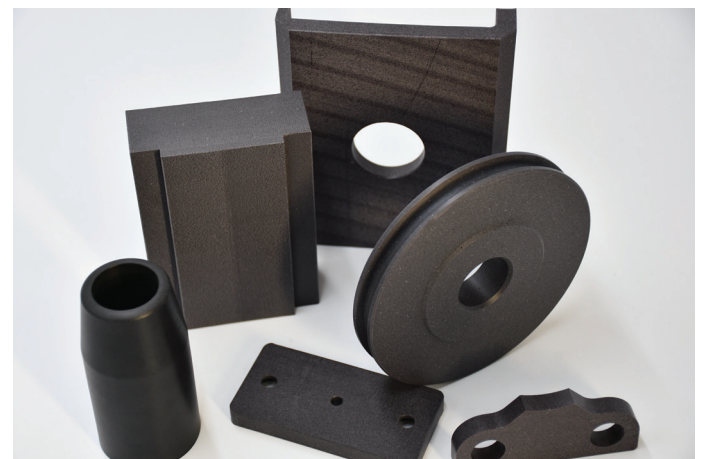
Unlike traditional fibre-reinforced materials, this grade provides more isotropic mechanical properties and can offer improved surface finish quality, making it particularly suitable for applications where appearance, precision, and dimensional accuracy are critical. The reduced density achieved through microsphere technology can also contribute to lighter-weight components without compromising structural performance. In addition, the microsphere reinforcement helps the material retain compressive strength and load-bearing capability at elevated temperatures more effectively than unfilled PA6, making it suitable for components subjected to sustained mechanical loads in demanding thermal environments.

With good chemical resistance, excellent processability, and a balanced combination of rigidity and impact strength, this material is an ideal solution for demanding engineering applications across the automotive, industrial, electrical, and consumer goods sectors.



TYPICAL APPLICATIONS

- Automotive housings, covers, and interior components
- Electrical and electronic enclosures
- Pump and valve components
- Precision moulded engineering parts
- Gears, bushes, and bearing housings
- Industrial machine components
- Conveyor system components
- Power tool housings
- Robotics and automation equipment
- Structural brackets and supports
- HVAC system components
- Instrumentation and control device housings
- Consumer appliance components
- Lightweight alternatives to metal components
- Dimensional-critical moulded parts requiring low warpage



NylacastEP_GF

KEY BENEFITS

- Enhanced stiffness and rigidity
- Improved dimensional stability
- Reduced warpage and distortion
- More uniform shrinkage characteristics
- Lower component weight
- Good impact resistance
- Improved surface finish
- Excellent processability
- High wear resistance
- Good chemical resistance
- More isotropic mechanical properties than fibre reinforced grades
- Suitable for precision engineering applications