PA6G+oil - cast polyamide 6 with oil

Other material names PA6G+oil: PA6G with lubrication with oil, oil filled

Material group: Polyamide

This internally lubricated cast PA6 is self-lubricating in the real meaning of the word. PA6G+oil developed for unlubricated, highly loaded and slow moving parts applications, yields a considerable enlargement of the application opportunities compared to standard cast PA6G. It offers a reduced coefficient of friction (up to 50% lower), considerably increasing the pressure-velocity capabilities, and a vastly improved wear resistance (up to 10 times better).

Color of material:
- Black
- Yellow

Typical applications:
- Drive element
- Guide rails
- Sliding profiles, slide bearings, slide rails
- Guide and track rollers
- Deflection pulleys

The material is used in:
- Automobile industry
- Wood processing
- Packaging industry
- Engineering industry
- Woodprocessing industry
- Construction machines
- Production of single-purpose machines

Features:
- High mechanical strength, stiffness, hardness and toughness
- Good fatigue resistance
- High mechanical damping ability
- Good sliding properties
- Excellent wear resistance
- Good electrical insulating properties
- Good resistance to high energy radiation (gamma- and X-rays)
- Good machinability

Material availability: Material is in stock

Material properties table

| Specific weight | 1.14 g/cm³ |
Engineering plastics are supplied in the form of bars, plates, strips, tubes and sheets. From the semi-finished products the company TechPlasty has regularly in stock, we also supply blanks.

All standard and special materials are designed to meet your specific requirements. Their mechanical, thermal, and electrical properties and chemical resistance satisfy the most demanding requirements and this allows them to work even in the most difficult conditions. If you need advice when choosing the appropriate material for your application, please contact us. We’ll gladly advise you. You can utilize the long-term experience of our technical advisors free-of-charge, who can visit you right in your operation and solve your requirements for engineering plastics directly at the site of their usage.

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