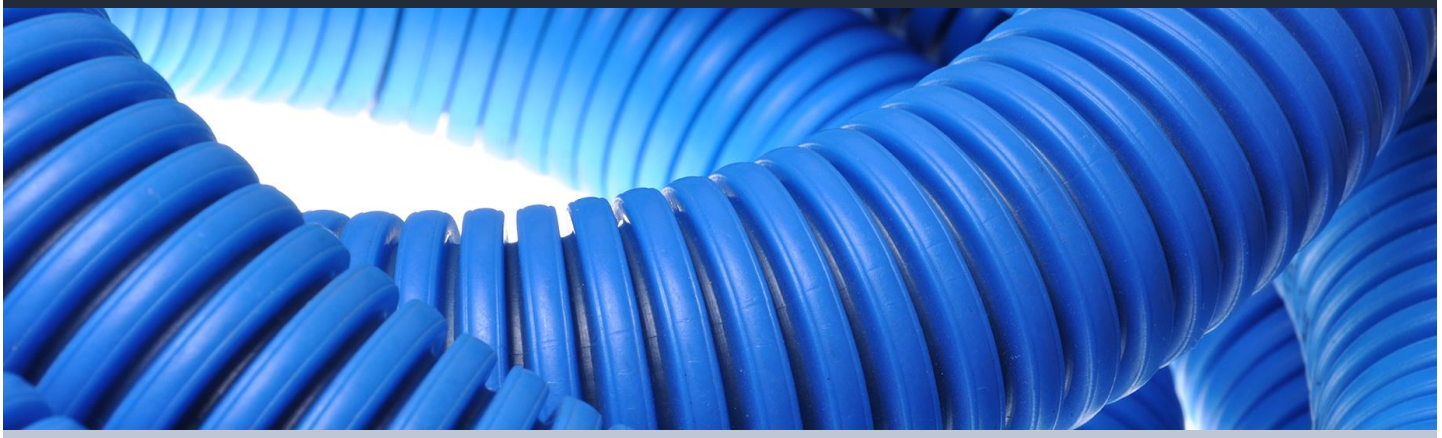
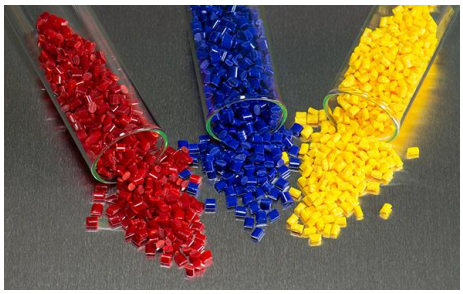
THE SPECIALISTS FOR
THERMOPLASTICS & ELASTOMERS

# BADA SPECIAL POLYAMIDES: PA12, PA612, PA610



- PA12 compounds for highest demands on resilience, flexibility and chemical resistance
- PA612 or PA610 compounds for both high heat distortion temperatures and good chemical resistance
- Very good impact resistance properties
- Very low hygroscopicity for parts requiring dimensional stability
- Customized colouring
- Available as flame retardant, with impact modification, softened and stabilised



## FLEXIBLE, CHEMICAL RESISTANT, DIMENSIONALLY STABLE – SPECIAL POLYAMIDES BY BADA

Special polyamides like PA12, PA612 or PA610 are used when conventional PA materials do not suffice with regard to chemical resistance, mechanical properties or an excessive hygroscopicity.

Badamid PA12 GM30 H S2, which is listed with UL, does not only show extreme chemical resistance; parts made from it can be autoclaved with superheated steam due to a special stabilization. Even after 100 sterilisation cycles the material will neither show any visual modification nor a deterioration of mechanical properties. For applications in the field of medical engineering, the material can be dyed with medical NCS colours.

We have developed a halogen-free flame retardant Badamid PA12 GF30 TM-Z1 FR HF natural S4 with flame class UL94-V0 for casings that require flame retardancy in addition to chemical resistance.

The appeal of Badamid PA612 H UV lies in its excellent dimensional stability under heat and its resistance to numerous cleaning agents.

More customized modifications are available after consultation with our Application Technology Department. Please, do challenge us!

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## A SMALL SELECTION OF OUR PRODUCT RANGE AT A GLANCE

| Modification | Properties |
|---|---|
| **GF/GK/M** | Glass fibre, glass bead or mineral filling for higher rigidity and lower shrinkage |
| **FR HF** | Halogen-free, flame retardant, UL94-V0, GWFI 960°C |
| **H (UV)** | Heat- and UV-stabilized, special types can be autoclaved as finished part |
| **TM-Z** | Impact modified for parts subject to high mechanical stress |
| **FM-Z** | Softened for flexible and highly flexible moulded parts |
| **CF** | Types filled with carbon fibre for maximum rigidity and conductive parts |
| **AS** | Antistatic types |
| **EX** | PA12 types with higher viscosity for extrusion applications |

**Badamid PA12 GM30 H S2 in detail:**

| | |
|---|---|
| **Tensile modulus** | 4000 MPa |
| **Yield stress** | 65 MPa |
| **Nominal elongation at break** | 12 % |
| **Charpy impact strength** | 80 kJ/m² |
| **Charpy notched impact strength** | 12 kJ/m² |
| **Density** | 1,2 g/cm³ |

- Listed with UL in ALL COLOURS
- Flame class HB (0.8 mm)
- Excellent mechanical properties
- High dimensional stability
- Can be sterilised with superheated steam
- Available in medical NCS colours

**BADAMID®**
PA6, PA6.6, PA6.6/6

**BADAMID®**
PA6/6T, PPA, PA4.6, PA10T

**BADAMID®**
PA12, PA1212, PA612, PA610

**BADATECH HT®**
HIGH-PERFORMANCE COMPOUNDS

**BADATRON®**
PPS

**BADAFLEX®**
TPE-S (SBS, SEBS)

**BADAFLEX®**
TPE-E, TPU

**BADAPRENE®**
TPV (EPDM/PP)

**BADADUR®**
PBT, BLENDS

**BADALAC®**
ABS-SPECIALTIES, BLENDS

**BADAFORM®**
POM

**BADALON®**
PC-SPECIALTIES, BLENDS

**BADAPROP®**
PP-SPECIALTIES, BLENDS

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