SUSTAnews

High temperature resistant Polyamide

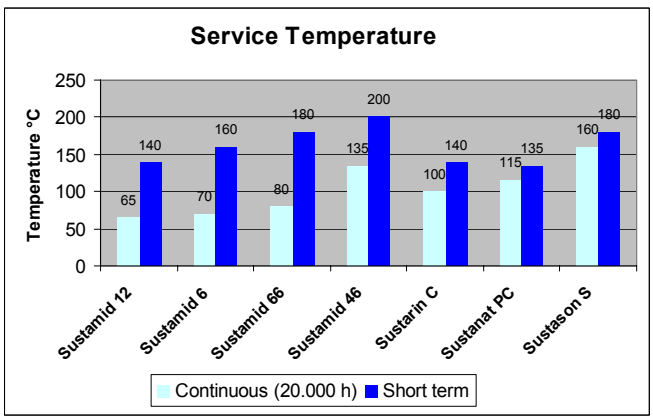
Sustamid® 46 Semifinished products available ex-stock

Sustamid® 46 is a high cystalline Polyamide, which differs from other technical plastics like PA 6, PA 66 or POM through its outstanding thermal and mechanical properties:

Properties of Sustamid 46	Advantages compared to PA6 and PA66
High continuous service temperature in air: 135 °C (80°C for PA66), see chart.	Application at high temperatures possible resp. increased life time.
High melting point: 295°C (220°C PA6).	No local fusion at short term thermal overload.
High rigidity, stiffness and creep resistance at high temperatures as well as high heat deflection temperature HDT A 160 °C in comparison to 100°C at PA66).	Lower deformation at high temperatures under load resp. lower necessary wall thickness.
High impact resistance	Increased break resistance at impact load, esp. in small radii

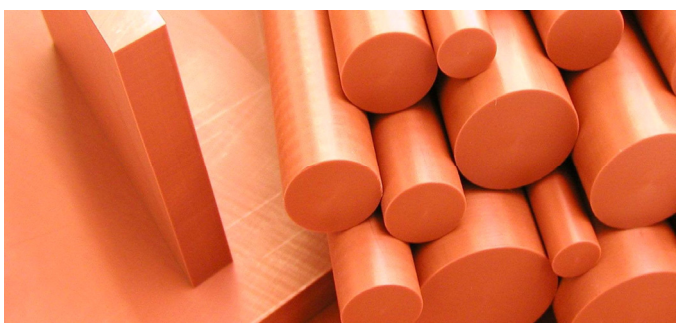
These characteristics provide Sustamid® 46 an additional technical advantage in comparison to many other ordinary plastics. Very often the gap may be closed to high performance materials like PSU, PPS or PEEK.

Typical application field of Sustamid® 46 can be found in the „high temperature range“ (90 up to 150°C), where the properties of PA66, PET or POM are not satisfactory.



Regarding short term thermal stress, Sustamid® 46 is due to its high crystallinity of 70% superior to the amorphous high performance material PSU!

Following dimensions are available ex-stock:



Sheets, 3000 x 620mm
Thickness: 10, 12, 16, 20 mm

Rods, Länge 3000 mm
Diameter: 18, 20, 30, 40, 50 mm