

# PRODUCT RANGE

## HT - HIGH TEMPERATURE

High temperature polymers are materials developed to maintain their mechanical and chemical properties under higher temperature conditions compared to conventional polymers. These polymers are used in a wide range of applications, both in industry and in other segments, such as the food and automotive industries, among others.

### WHAT MATERIAL DOES PISANI USE? AND WHAT ARE ITS PROPERTIES?

High temperature polypropylene is a variant of polypropylene designed to withstand higher temperatures and exhibit excellent chemical resistance and barrier properties. It is a material with a medium fluidity index, suitable for applications that require high rigidity/toughness.

High temperature polypropylene is a popular choice in a variety of applications due to its combination of light weight, strength and ability to withstand harsh conditions.



Figure 1: CN 10

### PROPERTIES OF HIGH TEMPERATURE POLYPROPYLENE:

1. **Thermal resistance:** It can withstand higher temperatures compared to other polymers.

2. **Chemical resistance:** It is resistant to many chemicals, solvents and acids, making it ideal for industrial applications.

3. **Low density:** It is lighter, which makes it easier to handle and apply in various industries.

4. **Mechanical properties:** It maintains rigidity and toughness at higher temperatures, allowing parts to retain their shape and functionality during application.



Figure 2: CN 28 F

Source: Literatura Técnica Braskem: TDS, Abril/2015; Resistência Química do Polipropileno, Junho/2010.