

# 8550, PP-like

## Key Features

Flexibility • Impact resistance • Smooth surface

## Applications

Prototyping • Automotive • Electronics • Consumer goods

## Product Description

8550 (PP-like) is a polyurethane resin formulated for vacuum casting that mimics polypropylene's mechanical behavior. It offers good flexibility and moderate impact resistance while maintaining a smooth surface finish typical of vacuum-cast parts. The material is suitable for functional prototypes and limited series production where a PP-like feel and performance are required, allowing designers to validate designs with end-use representative properties.

## Properties

Tensile strength	34 MPa
Elongation at break	72%
Bending strength	39 MPa
Young's modulus in flexure	960 MPa
Impact strength	10 kJ/m <sup>2</sup>
Heat deflection temperature (1.80 MPa)	70°C
Coefficient of thermal expansion (JIS K-6911)	9.8x10 <sup>5</sup>
Density	1.06 g/cm <sup>3</sup>
Hardness	76D

## Reference

For more detailed source information, please consult the original document linked [here](#). We encourage users to verify the data's relevance and suitability for their specific needs.

