

# PU ABS HT - 140°C



This material is a polyurethane resin designed for vacuum casting, with heat resistance up to 140°C. This system is versatile for prototyping heat-resistant components and used for strength testing and assembly process verification.

## MECHANICAL PROPERTIES

Hardness	85 Shore D (Testing method: JIS K-7215)
Flexural modulus	1,800 MPa (Testing method: JIS K-7171)
Flexural strength	85 MPa (Testing method: JIS K-7171)
Tensile strength	75 MPa (Testing method: JIS K-7113)
Elongation at break	10% (Testing method: JIS K-7113)
Impact strength	> 112 kJ/m <sup>2</sup> (Testing method: JIS K-7110 Izod V Notch)

## THERMAL PROPERTIES

HDT	140°C
Coefficient of thermal expansion	7x10 <sup>-5</sup> °C <sup>-1</sup> (Testing Method: JIS K-6911)
Shrinkage*	0.4% mm/m (In House (80Φ 4mm))

\*Average values obtained on standardized specimens/Hardening 1hr @70°C + 1hr @100°C+ 12 hrs @110 °C.

## APPLICATIONS

Engine room parts  
Air-conditioning units

Office automation equipment  
Vehicle lens housings