



UP5690, PP-like

Alternative Designations

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Key Features

High elongation at break • High impact strength • Excellent flexibility • Easy to process

Description

The product is made by mixing UP5690 Polyol, UP5690 Isocyanate, and UP5690 C. It is a vacuum-casting polyurethane resin and is generally used to produce parts having properties similar to PP and HDPE. The mechanical properties of the product depend upon the mixing ratio of the components. Due to its high impact resistance, it is suitable to manufacture bumpers, discs, covers, anti-vibration parts, and equipment boxes.

Mechanical Properties

Tensile strength	25 – 35 MPa
Elongation at break	50 – 90%
Flexural strength	20 – 50 MPa
Flexural modulus	0.6 – 1.3 GPa
Hardness	75 – 83

Thermal Properties

Softening temperature	65 – 85°C
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Physical Properties

Density	1.13 g/cm ³
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Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit Materialdatacenter.com for further information on this material.