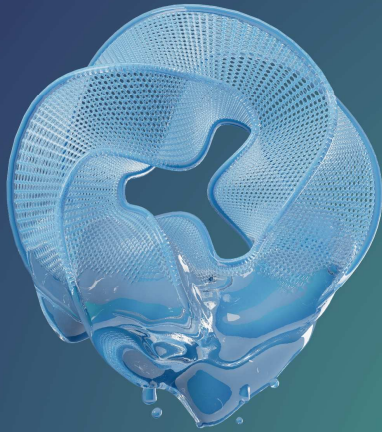


TECHNICAL DATA SHEET PRO22896

Custom formulation for toughness

Description

PRO22896 is a custom formulation designed for toughness. The resulting printed and post cured material exhibits a balance between Elongation at break, HDT B and Young Modulus. For optimal part definition, printing at elevated temperature is recommended. PRO22896 is optimized for DLP-type printers.



SHELF LIFE

Store in the original, closed container in a dry, cool (<38°C) and well-ventilated place. Keep away from frost and heat (open flames, hot surfaces and sources of ignition) sources. Typical shelf-life is **6** months from delivery date for unopened containers. In cases where product sampling is required to carry out incoming quality tests, shelf-life should be maintained beyond opening, provided that it is tightly closed immediately after and that contamination with foreign bodies is avoided.

Inhibitors have been added to enhance storage stability. They require the presence of air in the container in order to improve their efficiency. Keep stabilizer levels constant to avoid explosive polymerization. An air space is required above the liquid in all containers; avoid storage under an oxygen-free atmosphere.

STORAGE

See SDS for Storage Considerations

HEALTH AND SAFETY

See SDS for Health & Safety Considerations

PROVISIONAL

LIQUID PROPERTIES

| | |
|---------------------------|-------------|
| Appearance | Hazy liquid |
| Viscosity @ 25°C (mPa.s)* | 4400 |

MECHANICAL PROPERTIES

| Property (unit) | Value | Method |
|--|-------|-----------|
| Hardness shore D | 69 | ISO 868 |
| HDT B (@0.45 MPa) (°C) | 55 | ISO 75 |
| Stress at break (MPa) | 35 | ISO 527-2 |
| Elongation at break (%) | 21 | ISO 527-2 |
| Young Modulus (MPa) | 1700 | ISO 527-2 |
| IZOD notched impact (kJ/m ²) | 3,4 | ISO 180 |
| IZOD notched impact (J/m) | 41,9 | ASTM D256 |

PRINTING CONDITIONS

Formulation was printed on a DLP desktop printer at 385 nm at a temperature of 35°C.

POST-CURING CONDITIONS

Obtained printed part was cleaned in IPA then post cured in a 405 nm UV and heating chamber, during 20 min at 60°C.

*Formulation is shear thinning. Measuring conditions: Brookfield viscosity with a spindle n°34 at 8 rpm.