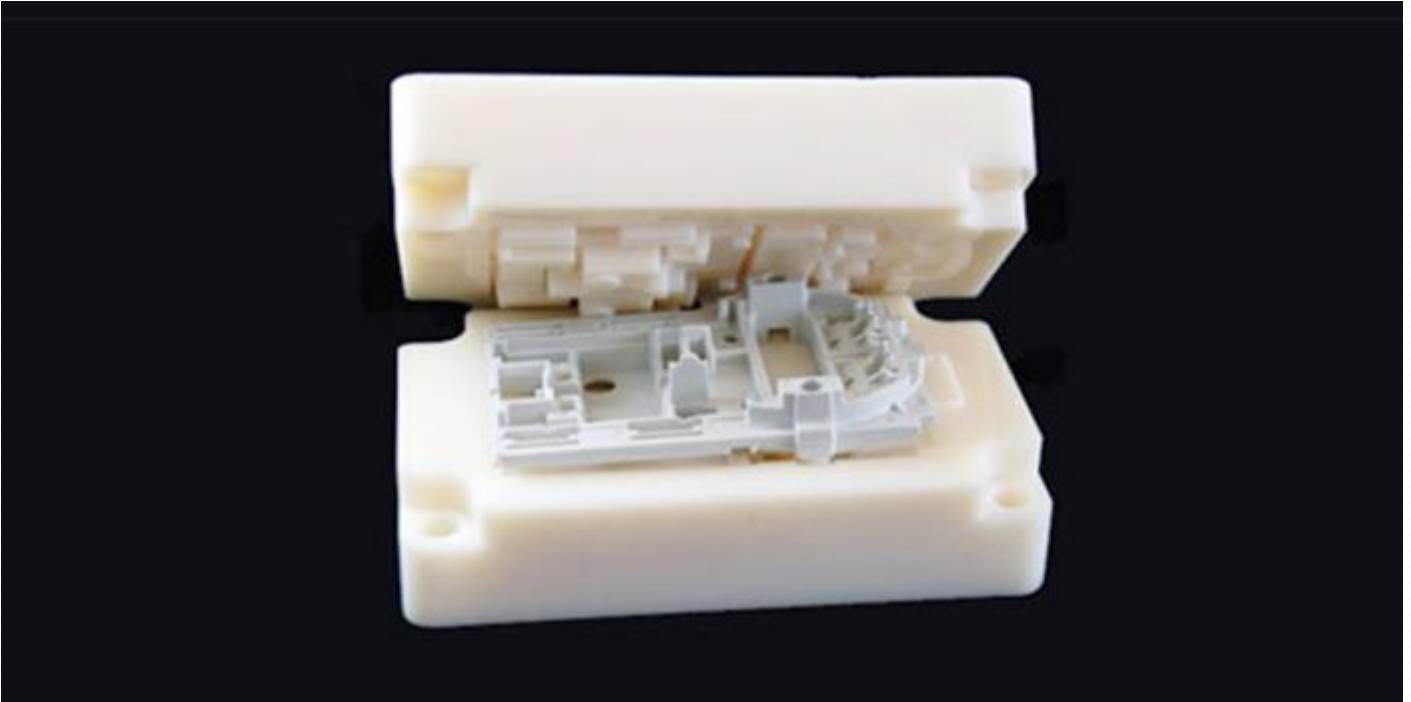


Somos® PerFORM is a strong-performance, very hard, and high temperature-resistant composite material developed by DSM. It is suitable for making all kinds of injection molds, wind tunnel test pieces, waterway test pieces, etc.



■ ■ Advantages

The surface of the part has high resolution. It does not require excessive post-processing procedures, and the details are preserved well. Parts temperature resistance can reach 276 °C and it is very hard.

■ ■ Disadvantages

Poor toughness.

■ ■ Accuracy

100mm ±0.1mm

■ ■ Recommended reasons

It can be directly used to make electrical enclosures, auto parts enclosures, injection molds, etc.; the parts are suitable for thermal performance testing, wind tunnel testing, etc.; production fixtures, fixtures, and testing tools.

■ ■ Note

This material has higher temperature resistance and higher hardness, but less toughness. If you have special requirements for use, please contact sales rep for solutions.

Material parameters

Heat distortion temperature (HDT@0.455 MPa) (ASTM Method D648, post heat curing)	276°C
Heat distortion temperature (HDT@1.82 MPa) (ASTM Method D150, post heat curing):	122°C
Shore Hardness (ASTM Method D2240)	92D
Tensile strength (ASTM Method D638)	68MPa
Elongation at break (ASTM Method D638)	1.1%
Bending strength (ASTM Method D638)	67Mpa
Flexural modulus (ASTM Method D638)	10000Mpa
Notched impact strength (ASTM Method D256)	16.9J/m2
Water absorption (ASTM Method D570-98)	0.19%
Poisson's ratio (ASTM Method D638)	0.318%

Application areas

- Aerospace, auto parts thermal performance test, wind tunnel test.
- Final parts and verification parts for electronic and electrical products; injection molds.