



Material Data Sheet: RenShape 7810

Properties: Well suited for robust models and prototypes with ABS-like, glossy surface finish and good detail reproduction. This resin can be certified to a medical grade USP class 6 certification.

Typical Properties: Physical Properties

| | |
|--------------------|------------------------|
| Appearance | White Liquid |
| Density @ 77°F | 1.13 g/cm ³ |
| Viscosity @82°F | 240 cps |
| @86°F | 210 cps |

Typical Properties: Mechanical Properties

| PROPERTIES | ASTM | UNITS | |
|-------------------------------------|-------|-------------------|-----------------------|
| Hardness, Shore D | D2240 | | 87D |
| Flexural Modulus | D790 | ksi | 275-348 |
| Flexural Strength | D790 | psi | 8,500-10,000 |
| Tensile Modulus | D638 | ksi | 260-348 |
| Tensile strength | D638 | psi | 5,200-7,400 |
| Elongation @ Break | D638 | % | 10-20 |
| Impact Strength, Notched Izod | D256 | lb./in. | 0.83-0.91 |
| Heat Deflection Temperature | D648 | °F | 124 |
| Glass Transition, Tg | DMA | °F | 144 |
| Coefficient of thermal expansion | TMA | °C | 96 x 10 ⁻⁶ |
| Cured Density | | g/cm ³ | 1.16 |