



Lubrizol LifeSciences

Polymers | Formulation | Manufacturing

POLYMER SOLUTIONS

Your Link To: Bonding Solutions Tecoflex® 1-MP Adhesive

Medical Grade Tecoflex 1-MP is a one-part adhesive based on a fast-crystallizing polyurethane resin. Tecoflex 1-MP has shown good results with the following substrates:

- Polyurethanes
- Plasticized vinyls
- Polycarbonates
- Acrylics
- Chlorinated SBR rubbers
- Primed metals



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Specifications:

Material: The adhesive is a solution of a polyurethane-based polymer in methyl ethyl ketone and methylene chloride.

Solids: 8% by weight

Viscosity: When tested with a Brookfield Viscometer, Model RVF, Spindle, #2, at 50 RPM, the viscosity at 25°C is 200-300 cps.

Color: The adhesive has a light gray to light yellow, translucent appearance.



1-MP Adhesive Strength of EG-60D to Other Materials:

MINIMUM ADHESIVE STRENGTH (PLI)	
EG-60D to EG-60D	15.0
Rigid PVC to EG-60D	16.0
Pellethane 65D to EG-60D	12.0
Acrylic to EG-60D	15.0
Polycarbonate to EG-60D	14.0
Primed 316 Stainless to EG-60D	14.5
Primed Ti-6Al-4V to EG-60D	14.5

Values are intended as an engineering guideline. The potential user must perform any and all pertinent tests in order to determine the suitability of the material for the intended application. It is the responsibility of the User to obtain any and all government approvals in order to comply with applicable regulatory requirements governing the use of the material in a medical or food handling device application. The final determination of fitness of the material for any specific application is the responsibility of the buyer.

Specimens were prepared by applying three coats of adhesive to clean specimens, followed by air drying for six hours. Specimens were heat activated with IR lamps, plied together under 1,000 psi pressure for one minute and cured for 24 hours at 24°C.

Adhesive bond strength was measured at 90° in tension with a cross-head speed of 20 IPM. Results given are the average of three tests.



For more information, visit Lubrizol.com/LifeSciences or call us at 216.447.5774 / 888.234.2436 (toll-free)

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