



Every medical device we coat touches lives®

PlastiGlide®

Gamma Sterilization Resistant Low-Friction
Coating System

Coating Data Sheet

Description:

PlastiGlide® is a series of coatings that are resistant to gamma sterilization. They are formulated with a very low friction form of high molecular weight polyethylene (PE). In addition to low-friction and .001" (0.0025mm) application thicknesses, PlastiGlide® coatings are resistant to gamma radiation sterilization procedures because they contain no fluorine chemistry, unlike PTFE or other fluoropolymers. These coatings are very low friction (0.012 per ASTM D 3702 @ 50RPM) and are tenaciously bonded to surfaces. Formulations include ON-2-115 and several others.

Features and Properties:

- Gamma radiation sterilization resistant to 110kgy for verification, 25-5kgy in production
- Moderate temperature cure of less than 350°F for rigid and filled plastics or metals
- Lower temperature formulations for rubber and flexible products with < 300°F cure temperatures
- Low friction of 0.012 compared to PTFE at 0.010 (ASTM D 3702 @ 50RPM)
- Clear to translucent color in standard formulations
- Primary colors and tints available
- Permanently bonded to rigid and flexible substrates
- Application to specific areas such as interior walls of tubing or flexible and rigid inside valves or other cavities
- Multiple coats may be applied to produce thicker films
- Anti-microbial formulations available
- Extreme high bond strength to substrates with moderate non-stick properties
- Will not flake nor powder in use

Typical Application Examples:

- Wide range of surfaces including inside or outside diameters and any visible surface
- Can be selectively applied to specific areas
- Flexible products made of Pebax, Polyurethane, and all types of rubber
- Rigid substrates of stainless, Nitinol, and most metals
- Rigid plastics of polyimide and similar high temp plastics
- Filled plastics with glass and fiber reinforcements
- Composite materials and bonded or welded construction

Dry Film Properties:

- .0001" (0.0025mm) thickness and thicker films available
- Good adhesion to wide range of flexible and rigid substrates
- Transparent / translucent or primary colors and tints available
- 0.012 friction
- Chemical resistance
- Gamma radiation resistant

The information presented in this coatings data sheet is based on our application of and work with these coatings. End use conditions and methods of use with these coatings which are beyond our control may modify these results. Before adopting our coatings for commercial use, the user should test and confirm the suitability of these coatings for each specific use. Additionally, our recommendations and suggestions for the application and use of our coatings are not a warranty that such application or use are free from infringement of any third party patent right. Technical support available for filing 510K submissions for device certification. Complete formation and composition analysis available for certification only. PlastiGlide® is a US registered trademark of Innovatech, LLC which is used under license by Surface Solutions Group, LLC.



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