



PlastiGlide®

Gamma Sterilization Resistant Low Friction Coating System

Surface Enhancement Experts

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 more formulations.

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 and metals
- Lower temperature formulations for rubber and flexible products with <300F 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
- Inside diameters coated successfully for tubing, flexible or rigid and inside valve and other cavities
- Very thin application thickness of .0001in (0.0025mm) in a single coat on inside and other surfaces
- Multiple-coats can be applied to produce thicker films
- Can be selectively applied to specific areas, inside of tubing or cavities, or outside diameters or both
- Anti-microbial formulations available
- Extreme high bond strength to substrates with moderate non-stick properties
- Will not flake or powder in use

Typical Application Examples :

- Wide range of surfaces including inside diameters, outer diameters and any visible surface
- Can be selectively applied to specific areas
- Flexible products made of Pebax, polyurethane, 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 and 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 contained in this coatings data sheet is based on our application of and work with these coatings. End use conditions and methods of use of 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 used under license by Surface Solutions Group, LLC.



5170 N. Northwest Hwy. Chicago, IL 60630 Tel: (773) 427-2084 Fax: (773) 282-9155
Email: info@surfacesolutionsgroup.com • website: www.surfacesolutionsgroup.com