



RothGreaves

PTFE Coatings

RothGreaves coatings are special purpose **Polytetrafluoroethylene (PTFE) finishes** designed for use in tooling and applications that require a high temperature, durable, non-stick finish. So smooth you'll feel the difference, these glass-like finishes are perfect for bonding and molding of thermoplastics, injection molding, adhesive bonding, and any manufacturing tooling requiring a high temperature, easy-release non-stick finish. The superior durability and finish of RothGreaves DR coatings makes them among the best, most reliable release finishes available on the market today.



Zero PFOA!

Now available: DR-472! The same reliable finish now offered in Blue!



RothGreaves coatings are used for:

- bonding and molding of thermoplastics
- catheter manufacturing
- injection molding
- adhesive bonding

Characteristics of RothGreaves DR coatings:

- capability to withstand temperatures of 600° F.
- suitable for food contact applications or medical device tooling
- passes Class VI biocompatibility
- typical thickness is 0.0003"
- excellent adhesion to most metals including stainless steel, tool steel, titanium, aluminium, and Nitinol
- resistance to most solvents
- can be removed from tooling for recoating
- outperforms most other coatings available today

*DR finishes DO NOT apply well to copper, brass, or bronze

CAUTION: The finish is cured at an elevated temperature and may cause changes in the properties of certain metals.

RothGreaves DR PTFE Coatings

Superior release finishes for use on tooling used in medical device manufacturing such as mandrels, hypotubes, core pins, tipping dies, and more

Formulation	Color	Avg. Thickness	Cure Temp	Description
DR-95Z	Grey	.0003" / side	750° F	DR95Z has increased flowability and is recommended for parts with complicated profiles, challenging contours, sharp edges, as well as for ID coatings
DR-96	Green	.0003" / side	750° F	DR96 is a color variant recommended in applications where a green finish is desirable
DR-97	Lt Grey	.0003" / side	750° F	DR97 is a variation with similar properties to the DR95Z that can see increased durability on straight or only slightly tapered parts
DR-472	Blue	.0003" / side	750° F	DR472 is a color variant recommended in applications where a blue finish is desirable that includes the increased durability similar to the DR97
DR-00	Clear	.0001" / side	750° F	DR00 is a coating that applies to the substrate without the addition of any color producing pigmentation, giving the material a neutral, transparent finish

RothGreaves & Associates is the exclusive source for DR PTFE finishes.

The DR PTFE Finishes, their formulations and application processes are the exclusive property of RothGreaves & Associates, Inc.



For more information call 1-952-404-2604 or visit <http://www.rothgreaves.com/ptfe-coatings>

RothGreaves

PRODUCT DESCRIPTION

PTFE Release Finishes

General Information

RothGreaves proprietary DR finishes are special purpose Polytetrafluoroethylene (PTFE) coatings designed for use in applications that require a high temperature, durable, non-stick finish. The finish is applied from a liquid formulation. The cured coating has strong release properties for plastic bonding and molding operations and can withstand heat up to 600°F. The cured finish is biocompatible and has passed USP Class VI testing, making it suitable for use on tools in the manufacture of food contact products and medical devices. The material is applied at a typical thickness of 0.0003" and has excellent adhesion to most metal substrates. RothGreaves DR coatings and the application methods are the property of RothGreaves & Associates, Inc.



**DR-95Z
(GREY)**

Substrate Preparation

To ensure the highest quality finish, careful preparation of the substrate is required. Each part is thoroughly cleaned with a special agent to remove any contamination and to activate the surface for maximum adhesion. Where the highest adhesion is required, a grit blast of the surface with 150-micron media prior to cleaning ensures the best adhesion.

Curing of Finish

DR Finishes require two curing cycles throughout the application process, both at a temperature of 750°F. The high temperature is required to achieve the proper sintering and adhesion. Be aware that elevated temperatures can cause undesirable changes in some metal substrates.

Chemical Resistance

RothGreaves DR coatings are resistant to most solvents; but some strong acids or bases may cause deterioration of the finish.

Reapplication

RothGreaves DR coatings can be reapplied to metal substrates after removal of residual coating. Mechanical methods that include polishing, grit blasting and scraping can be used to remove the finish. However, chemical methods are hazardous and should be avoided.

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