



Uradil® FP-9300

EXCELLENT ALCOHOL RESISTANCE WITH FLAWLESS AESTHETIC PERFORMANCE

Alongside sustainability, packaging performance is always top of mind for brand owners. That's why we developed our Uradil® FP-9300 to provide excellent alcohol resistance, without the need for undesirable substances in the formulation. This enables packaging manufacturers to sterilize transparent BOPP flexible packaging with alcohol, without the risk of making the film matte or opaque.

Good alcohol resistance meets improved recyclability

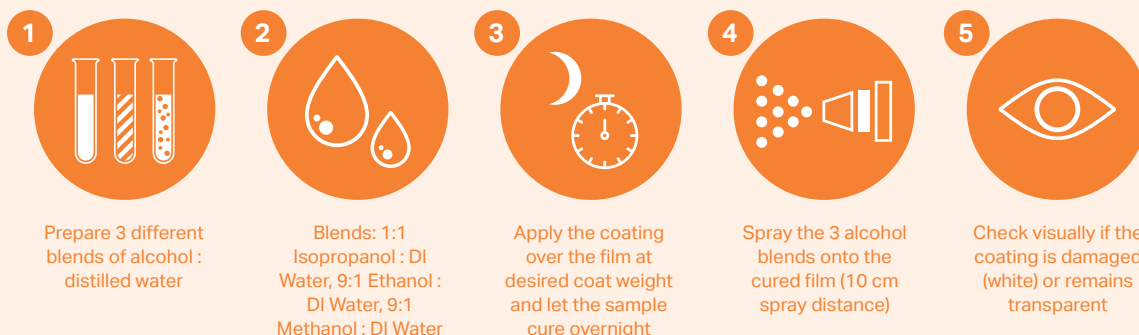
Uradil® FP-9300 has undergone rigorous testing to verify its excellent alcohol resistance. This means that BOPP flexible plastic packaging coated with Uradil® FP-9300 maintains excellent optical and mechanical performance properties.

Fully sterilizable packaging

An alcohol resistance test determines the ability of a coated packaging film to withstand exposure to alcohol. This ensures that the packaging is fit for uses that require alcohol sterilization, including food and cosmetics packaging.



Covestro's step-by-step approach



These graphs show how the alcohol resistance of BOPP flexible plastic packaging is improved when coated with Uradil® FP-9300 in our labs. Uradil® FP-9300 offers an alternative to chlorine-based formulations while providing the same alcohol resistance as PVdC.

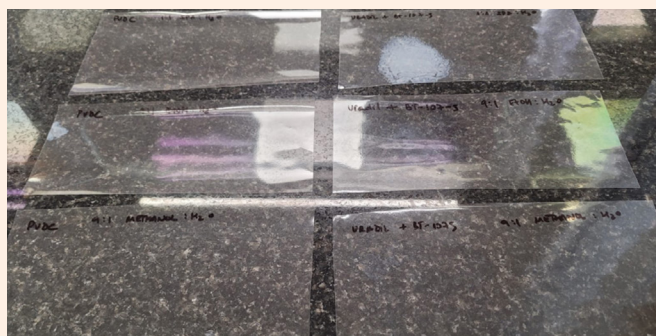
	PVdC	Uradil® FP-9300 (formulated)
1:1 IPA:H ₂ O	OK	OK
9:1 EtOH:H ₂ O	OK	OK
9:1 Methanol:H ₂ O	OK	OK

About Uradil® FP-9300

The new Uradil® FP-9300 is a water-based coating that improves the mechanical recyclability of flexible BOPP packaging films. It offers the same heat sealability, alcohol resistance, and aesthetic properties as PVdC-coated packaging. Unlike PVdC-coated packaging, however, when processed in mechanical recycling streams, it produces a high-quality, transparent recyclate.

Uradil® FP-9300 is an alternative to chlorine-based coatings, enhancing the recyclability of BOPP flexible plastic packaging. Coating packaging in Uradil® FP-9300 reduces the risk of potentially degrading the quality of BOPP recyclate or damaging recycling equipment through the production of hydrochloric acid.

Choosing Uradil® FP-9300 instead of PVdC is a step on the way toward building a circular economy for flexible BOPP packaging.



Alcohol resistance of BOPP film when coated with PVdC (left side) and Uradil FP-9300 + BT-107 (right side)

[Click here](#) to learn more about the alcohol resistance properties of Uradil® FP-9300.

TERMS AND CONDITIONS

The manner in which you use our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, is beyond our control. Therefore, it is imperative that you test our products to determine suitability for your processing and intended uses. Your analysis must at least include testing to determine suitability from a technical, health, safety, and environmental and regulatory standpoint. Such testing has not necessarily been done by Covestro, and Covestro has not obtained any approvals or licenses for a particular use or application of the product, unless explicitly stated otherwise. If the intended use of the product is for the manufacture of a pharmaceutical/medical product, medical device¹ or of pre-cursor products for medical devices or for other specifically regulated applications which lead or may lead to a regulatory obligation of Covestro, Covestro must explicitly agree to such application before the sale. Any samples provided by Covestro are for testing purposes only and not for commercial use. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information, including technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed by you that you assume and hereby expressly release and indemnify us and hold us harmless from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent. These values are typical values only. Unless explicitly agreed in written form, they do not constitute a binding material specification or warranted values.

¹Please see the "Guidance on Use of Covestro Products in a Medical Application" document. Edition: July 2021