

DuPont™ Delrin® Acetal Homopolymer Resin

Food Contact and Water Contact Portfolio

DuPont has years of experience in providing resins for use in a variety of food contact and potable water applications.

The company offers a comprehensive range of Delrin® Acetal Homopolymer resins optimized specifically for components that come into contact with potable water and food.

These resins meet the requirements of various regulatory standards including Food Contact compliance (FG), as well as suitability for contact with potable water according to NSF 61, WRAS (Water Regulations Advisory Scheme), ACS (Attestation de conformité sanitaire), KTW (Kunststoffe im Trinkwasser) as well as W270 standards. They are produced according to Good Manufacturing Practice (GMP).

These resins have been used in product applications including pumps, filtration components, sanitary, in-line heaters, fixtures and tanks, as well as kitchenware, food packaging, and food processing.



Features

- Excellent performance and durability
- High mechanical strength and stiffness
- High fatigue resistance and toughness over a wide temperature range, in particular at low temperature
- Excellent creep resistance and dimensional stability

Benefits

- Cost reduction and longer lifetime
- Improved sustainability
- Expanded freedom to design complex parts through higher mechanical properties
- Regulatory support for faster part qualification

See below information on drinking water certifications:

Agency/Standard	WRAS	ACS	KTW	W270	NSF 61
	UK	France	Germany	Germany	USA
Regulatory process for customer PARTS:					
Resin approval required for parts approval	No	No	No	No	No
DuPont can disclose resin composition to Agency to support customer parts submittal	Yes	Yes	Yes	Yes	Yes
Regulatory process for RESINS: DuPont submission of molded plates/plaques to the Agencies for testing					
Food Contact suitability required:					
EU: 10/2011	No	Yes	Yes	Yes	N/A
US: FDA	N/A	N/A	N/A	N/A	No
Approval duration	5 Yrs	5 Yrs	5 Yrs	5 Yrs	1 Yr
Resin listing in the public domain	Yes	Yes	No	No	Yes
Agency Link	www.wras.co.uk	https://solidarites-sante.gouv.fr	N/A	N/A	https://info.nsf.org



Small appliances



Kitchenware and Consumer



Water management: faucets

Portfolio Category	Product	Food Contact			Potable Water Contact						
		FDA	EU10/2011	GMP (EC) 2023/ 2006	NSF 61		WRAS		ACS	KTW	DVGW
					23°C	82°C	23°C	85°C	23-85°C	23°C	W270
High viscosity acetal homopolymer specifically designed for extrusion processes	Delrin® FG150										
High performance with best combination of toughness and impact strength; flow from high to low viscosity	Delrin® FG100										
	Delrin® RAFG100*										
	Delrin® FG100P										
	Delrin® FG500										
	Delrin® FG500P										
Enhanced crystallization technology for faster cycle times, excellent creep and fatigue resistance, and dimensional stability; flow from high to low viscosity	Delrin® RAFG500P*										
	Delrin® FG900P										
	Delrin® FG111DP										
	Delrin® FG311DP										
	Delrin® FG511DP										
PTFE lubricated with low wear and low friction	Delrin® RAFG511DP*										
	Delrin® FG911DP										
	Delrin® FG100TL										
Advanced lubrication designed for low wear & low friction over time and low noise	Delrin® FG500TL										
	Delrin® FG311SLF										
	Delrin® FG500AL										

* Delrin® Renewable Attributed for lower Global Warming Potential

Source: DuPont

dupont.com

DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, SM or TM are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted. © 2021 DuPont.

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable and falls within the normal range of properties. It is intended for use by persons having technical skill, at their own discretion and risk. This data should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.

