

# New Ultra-high-flow DuPont™ Crastin® Makes Cosmetics Packaging More Attractive Than Ever



Cosmetics buyers want products with packaging that reflects style and prestige, as well as assures them that the product is of high quality. In a global market expected to reach a value of \$758.4 billion by 2025 (Statista), it's more difficult than ever for makers of cosmetics to stand out on shelves and online. Now, a new, advanced grade of DuPont™ Crastin® helps manufacturers create cosmetics packaging that's just as beautiful as it is strong.

## New Ultra-high-flow Crastin®

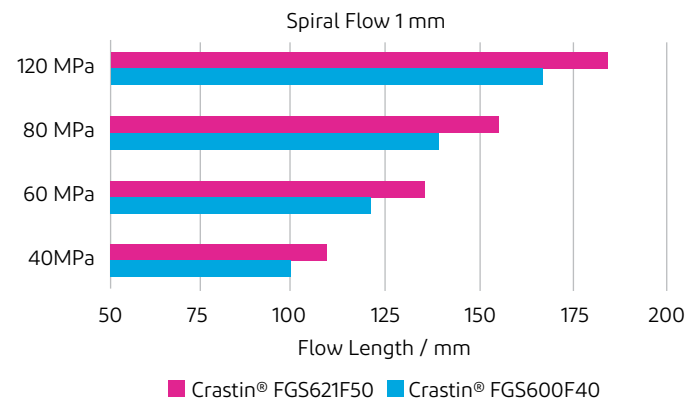
Crastin® FGS621F50 is a new ultra-high-flow resin that delivers key benefits for cosmetics packaging where ease of processing and a smooth finish are of utmost importance. It's prized for its combination of:

- High mechanical properties
- Dimensional stability
- Low emissions
- Chemical resistance
- Excellent surface finish

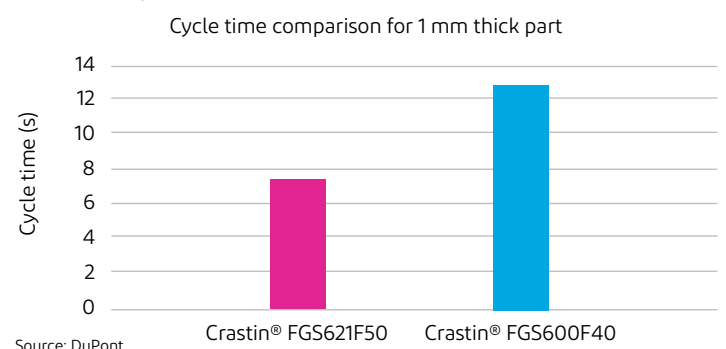
This new grade of Crastin® also provides manufacturers with these advantages:

- Potential to reduce cycle time for increased cost efficiency
- Food contact compliance
- Wider processing window
- Reduced molding machine size due to lower filling pressure
- Lower energy consumption during molding

## Superior Spiral Flow of Crastin® FGS621F50



## Shorter Cycle Time with Crastin® FGS621F50



## Ideal for Many Cosmetics Applications

Cosmetics applications for Crastin® FGS621F50 include, but are not limited to:

- Pumps
- Spray valves
- Lipstick mechanisms
- Lip gloss applicators
- Eye liner mechanisms
- Housings

## Safety You Can Rely On

In addition to being extremely versatile, Crastin® is safe, with select grades like Crastin® FGS621F50 meeting FDA and EU standards for food and cosmetics applications.

# Crastin® FGS621F50

Ultra-high-flow grade

Rheological properties		
Melt mass-flow rate	50 g/10min	ISO 1133
Melt mass-flow rate, Temperature	250°C	ISO 1133
Melt mass-flow rate, Load	2.16 kg	ISO 1133
Molding shrinkage, parallel	1.8%	ISO 294-4, 2577
Molding shrinkage, normal	1.8%	ISO 294-4, 2577
Typical mechanical properties		
Tensile modulus	2700 MPa	ISO 527-1/-2
Yield stress	60 MPa	ISO 527-1/-2
Yield strain	13%	ISO 527-1/-2
Charpy impact strength, 23°C	150 kJ/m <sup>2</sup>	ISO 1791e1
Charpy notched impact strength, 23°C	4 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.38 -	

Source: DuPont

## Why Choose Crastin®

With more than 100 grades, Crastin® PBT is the resin of choice for cost-effective high performance across a wide range of consumer and industrial applications.

Crastin® PBT offers manufacturers the advantage of superior flow qualities which makes it easy to process on conventional injection molding machines. Plus, it's available in a wide range of grades designed for:

- low-warpage
- hydrolysis resistance
- blow-molding
- extrusion

With Crastin®, DuPont materials science experts help customers gain cost efficiency without compromising on performance.

## Transforming industries and improving lives through materials science.

The foundation of everything we do at DuPont centers around what our customers need. It's not just about the solutions we innovate, but also how we work with our customers. Through our worldwide network of innovation and technical centers, our leading researchers work in close collaboration with customers, from concept to commercialization, using a wide range of processing, prototyping technologies, and testing expertise.

For more information about ultra-high-flow Crastin® solutions for cosmetics, contact your DuPont representative.

[dupont.com](http://dupont.com)



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