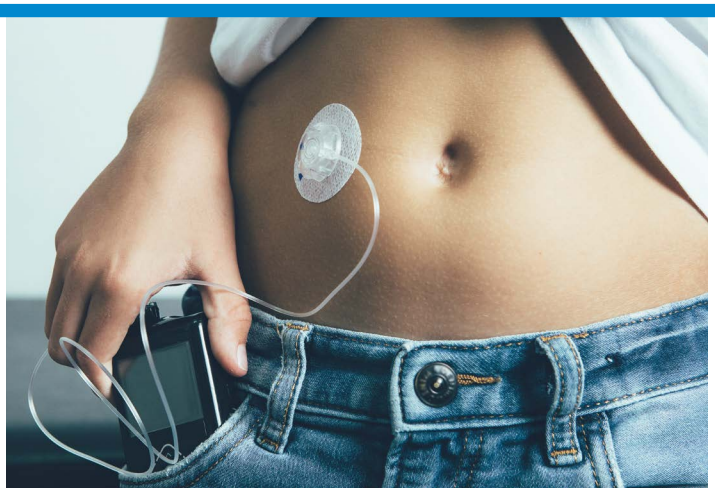
Delrin® Renewable Attributed RASC655
for Medical Grade Applications



Delrin® RASC655 base polymer is produced from certified sustainable resources and under special control for medical grade applications. It delivers top-class mechanical properties with reduced lifecycle greenhouse-gas emissions and lower fossil resource use.

Product overview

Delrin® RASC655—a medium-viscosity acetal homopolymer that is ideal for medical grade applications requiring the highest mechanical properties—supports your sustainability goals with:

- Base polymer produced from 100% certified bio-feedstock from waste and accredited through the International Sustainability and Carbon Certification (ISCC) mass balance certification system
- 73% lower product cradle-to-gate carbon footprint
- Reduction of non-renewable fossil resource usage

SC designates Delrin resin grades that are produced under strict manufacturing controls, undergo extensive testing and comply with broad regulatory requirements to align with medical grade product needs including:

- Manufactured according to Good Manufacturing Practices (GMP)
- Sterilization data on record
- Selected USP Class VI compliance
- Relevant ISO 10993 compliance
- Global availability

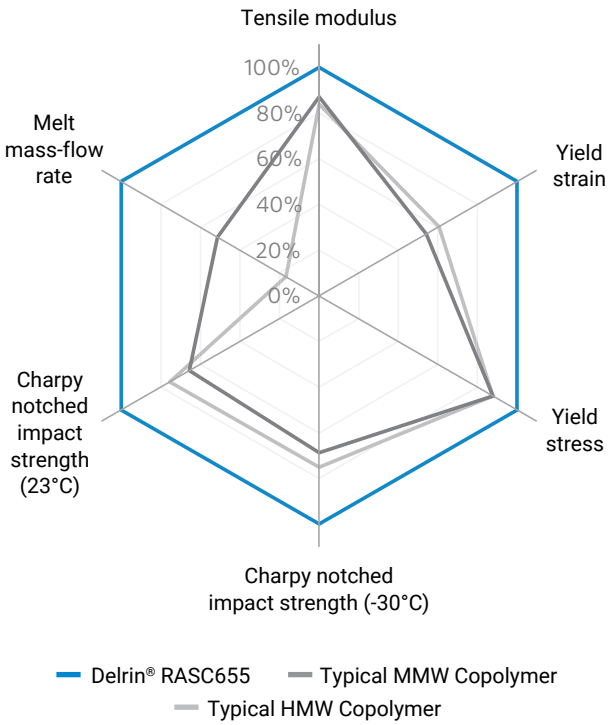
Thanks to the mass balance approach, Delrin® RASC655 offers the same superior performance and quality as Delrin® SC655 with a lower global warming potential (GWP). (A three panel peer reviewed Life Cycle Assessment (LCA) was conducted on the Delrin® RA product in accordance with ISO 14040/14044.)

Delrin® RASC655/SC655 properties

Properties	Value	Unit	Test method
Melt mass-flow rate (MFR 190°C, 2.16kg)	15	g/10min	ISO 1133
Mold shrinkage (parallel/normal)	2.0/1.9	%	ISO 294-4
Tensile modulus	3100	MPa	ISO 527-1/-2
Tensile strength at yield	71	MPa	ISO 527-1/-2
Yield strain	17	%	ISO 527-1/-2
Nominal strain at break	30	%	ISO 527-1/-2
Charpy notched at 23°C	9	kJ/m^2	ISO 179/1eA
Charpy notched at -30°C	8	kJ/m^2	ISO 179/1eA
Temp of deflection under load, 1.8MPa	95	°C	ISO 75-1/-2
Melting temperature, 10°C/min	178	°C	ISO 11357-1/-3
Density	1.42	g/cm3	ISO 1183

Source: Delrin

For complete data, visit Delrin® Material Data Center at https://delrin.materialdatacenter.com



Source: Delrin

Certified sustainability

Delrin® RASC655 is produced using renewable methanol, produced from waste. A mass balance chain of custody is used to produce our renewable resin: feedstock from fossil and renewable origin are mixed within the production units. A fraction of the final product, equivalent to the amount of sustainable feedstock used upstream, is labelled renewable. The supply chain is certified by the International Sustainability and Carbon Certification (ISCC) system.

Enable sustainable design

Delrin® RASC655 delivers superior performance compared to competitive medium molecular weight (MMW) copolymers, as well as competitive high molecular weight (HMW) copolymers. With higher tensile properties (+15%) and increased impact resistance (+30%) achieved on a significantly better flow, Delrin® RASC655 permits the design of parts with thinner walls while maintaining full functionality.

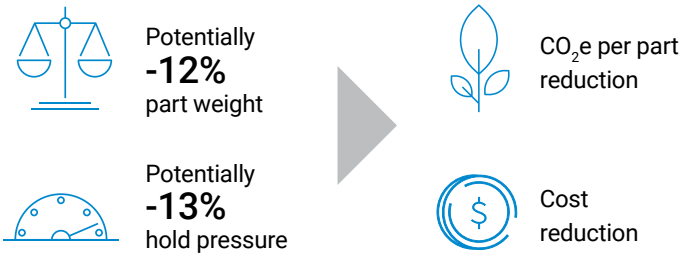
Designing lighter parts with Delrin® RASC655 saves energy, resources and money.

Optimize your resource efficiency

The use of reground Delrin® has almost no influence on mechanical properties and molding performance. Five passes with 100% reground material are possible without any negative effect on mechanical properties. Using Delrin increases your internal recycling rate and achieves substantial environmental and financial savings.

Reliable parts, made to last

In addition to the ability to make durable parts at possibly higher production rates, you can count on Delrin for consistent quality and supply stability, as well as the design, technical and processing support you need to ensure high-quality parts that deliver on their promise. For the highest rigidity, best spring-like forces, low creep and USP Class VI and ISO 109993 compliance, Delrin® RASC655 acetal is an ideal sustainable medical polymer material.



To learn more, contact your Delrin representative or visit Delrin.com.

The information and recommendations contained herein are offered as a service to our customers but are not intended to relieve the user from its responsibility to investigate and understand other pertinent sources of information and to comply with all laws and procedures applicable to the safe handling and use of these materials. The information and recommendations provided herein were believed by Delrin to be accurate at the time of preparation or obtained from sources believed to be generally reliable. However, Delrin makes no warranty concerning their accuracy and Delrin will not be liable for claims resulting from any party's use of or reliance on information or recommendations contained herein regardless of whether it is claimed that the information or recommendations are inaccurate, incomplete or otherwise misleading. **Caution:** For medical applications, discuss with a Delrin customer representative and consult the Delrin® Medical Caution Statement.

Delrin is an industry-leading premium industrial polymer business. Grounded in strong innovation, Delrin is a category creator with a longstanding reputation for quality, reliability, supply and product performance. The iconic Delrin brand, coupled with proprietary technology and deep application expertise make us a leader in the high-end engineering polymer market. Delrin has exciting growth prospects from exposure to automation, actuation, healthcare, mobility and consumer applications.

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