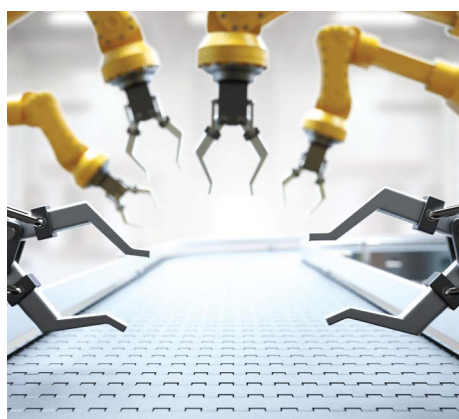


DuPont™ Delrin® Renewable Attributed RA500CPE

Delrin® RA500CPE base polymer is produced using 100% bio-feedstock from waste, accredited through the International Sustainability and Carbon Certification (ISCC) mass balance certification system. It delivers state-of-the-art low VOC technology and top-class mechanical properties with reduced lifecycle greenhouse gas emissions and lower fossil resource use.



Delrin® used in material handling

Product overview

DuPont is excited to announce Delrin® Renewable Attributed (RA) 500CPE, a medium viscosity, low emission acetal homopolymer grade produced from certified sustainable sources.

Delrin® RA500CPE supports our customers' sustainability goals with:

- base polymer produced from 100% certified bio-feedstock from waste (ISCC mass balance)
- bio-feedstock from second-generation sources, not in competition with the food and feed chain
- 100% certified renewable electricity used for production
- lower product cradle-to-gate carbon footprint
- reduction of non-renewable fossil resource usage
- low VOC (below 2 ppm in VDA 275)

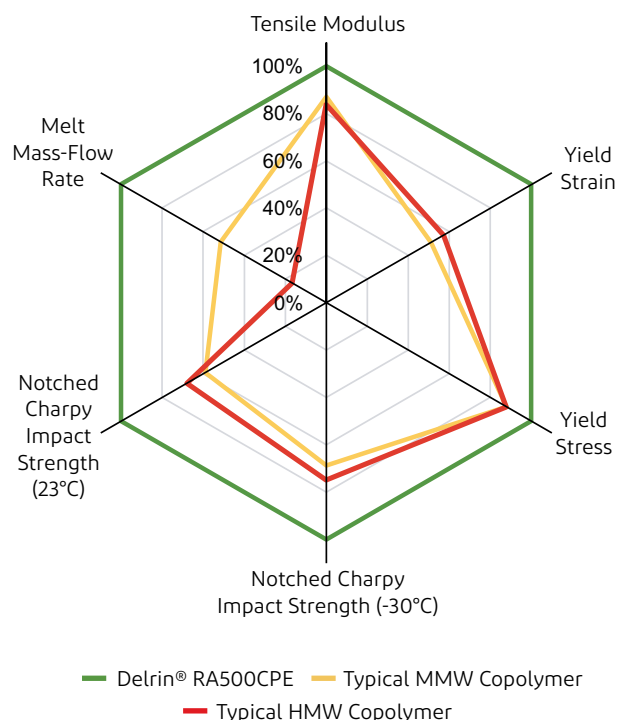
Delrin® RA500CPE offers the same superior performance and quality our customers expect from our Delrin® 500CPE, with an improved environmental impact profile*.

* Sustainability assessment conducted using a cradle-to-gate Life Cycle Assessment (LCA) in accordance with ISO 14040/14044 methodology.

| Properties ** | Unit | Test method | Delrin® 500CPE | Delrin® RA500CPE |
|---|-------------------|----------------|----------------|------------------|
| Melt mass-flow rate (MFR 190°C, 2.16kg) | g/10min | ISO 1133 | 15 | |
| Mold shrinkage (Parallel / Normal) | % | ISO 294-4 | 2.0 / 1.9 | |
| Density | g/cm ³ | ISO 1183 | 1.42 | |
| Melting temperature, 10°C/min | °C | ISO 11357-1/-3 | 178 | |
| Notched Charpy at 23°C | kJ/m ² | ISO 179/1eA | 10 | |
| Notched Charpy at -30°C | kJ/m ² | ISO 179/1eA | 8 | |
| Tensile strength at yield | MPa | ISO 527-1/-2 | 72 | |
| Yield strain | % | ISO 527-1/-2 | 18 | |
| Nominal strain at break | % | ISO 527-1/-2 | 33 | |
| Tensile modulus | MPa | ISO 527-1/-2 | 3100 | |
| Temp of deflection under load, 1.8MPa | °C | ISO 75-1/-2 | 97 | |

** Information in this table is based on technical data that DuPont believes to be reliable and represents typical values that relate only to the specific material designated. This information may be subject to revision as new knowledge and experience becomes available.

Source: DuPont



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High performance

DuPont™ Delrin® Renewable Attributed RA500CPE outperforms both medium and high molecular weight (MW) acetal copolymers, enabling sustainable design.

Certified sustainability

Delrin® RA500CPE base polymer is produced using 100% bio-feedstock from waste, in accordance with mass balance principles. A mass balance approach and chain of custody utilizes separate bookkeeping from cradle to gate (feedstock to finished product) and enables supply chain traceability. DuPont's Delrin® Renewable Attributed manufacturing site and supply chain are accredited through the globally-recognized International Sustainability and Carbon Certification (ISCC) certification system.

Enable sustainable design

Delrin® RA500CPE delivers superior performance compared to competitive medium MW copolymers, as well as competitive high MW copolymers. With higher tensile properties (+13%) and increased impact resistance (+40%) achieved on a significantly better flow, Delrin® RA500CPE enables the design of parts with thinner walls while maintaining full functionality.

Designing lighter parts with Delrin® RA500CPE 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 effects on mechanical properties. Using Delrin® helps increase 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, when you work with DuPont you can count on consistent quality and supply stability. Plus, our design, technical, and processing support helps you produce high-quality parts that deliver on their promise.

By optimizing part design, Delrin® Renewable Attributed enables environmental and cost savings compared to medium MW copolymer alternatives.



Potentially
-12%
Part Weight



CO₂e per Part
Reduction



Potentially
-13%
Hold Pressure
Time



Cost
Reduction

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Mobility and Materials

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Form No. 001-20549-HMC0321