

Lucite International

Specialty

**Polymers
& Resins**



Dental Polymers

Performance Acrylics

Colacryl® Lucite®

Dental Polymers

➤ Highest quality acrylic polymer for the dental market

Over the last seventy years we have established an outstanding reputation for supplying high-quality acrylic polymers to the international dental market. Today, we have a comprehensive range of Colacryl® branded acrylic polymers and are committed to continuously improving our products to meet future requirements.

Using our knowledge of the sector, and understanding our customers' needs, we continue to lead with products that deliver performance and dependability for our customers.

➤ Long-term commitment to delivering for our customers

A growing, ageing population, increasing affluence and changing lifestyles all contribute to the challenges faced by dental practitioners on a daily basis. Using our knowledge and experience, we work with our customers to develop pioneering solutions to these challenges.

➤ Quality assured in all that we do

Our close relationships with the world's leading dental manufacturers, alongside academics specializing in cutting-edge orthodontics, allow us to continuously innovate. Our manufacturing and quality systems are certified to the international standards ISO 9001:2015 and ISO 13485:2016.



➤ We have an established and comprehensive range that includes:

- **Heat cure denture polymers** – a range of performance characteristics with the flexibility to be fast or slow cured
- **Auto-polymerizing polymers** – for full and partial dentures, repairs and relines with a non-yellowing option
- **Tooth polymers** – medium to high molecular weights that can be modified with our cross-linked polymers to enhance hardness and stain resistance
- **Orthodontic polymers** – characterized by close control of particle size, free flow and rapid absorption of dental liquid
- **Computer-aided applications** – polymers for the growing CAD/CAM blocks and disks market
- **Specialist applications** – covering crown and bridge polymers, tray polymers, chairside reline polymers and ear mold polymers

We know that the challenges of the global dental market are constantly evolving, and are dedicated to providing innovative solutions to our customers' needs.





Denture Base

A strong, reliable denture base is essential to support prosthetic teeth. Our range of denture base polymers has been designed to offer a wide range of handling properties without compromising strength or durability.

- **Colacryl® D80FC** is our best-selling denture base polymer, featuring fine particle size and high molecular weight. It can be fast or slow cured to create high quality dentures.
- **Colacryl® PD115G** is a copolymer which offers faster dough time and longer working time for short curing cycles.
- **Colacryl® DP300** features a higher particle size which allows longer doughing and working times.



Denture Repair

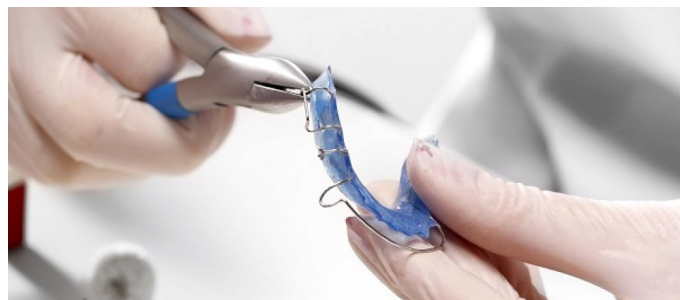
We also supply auto-polymerizing materials for denture repairs and relines, with a range of curing options. These provide a tough, durable bond with fast mixing times and superb handling qualities.

- **Colacryl® D1-120** has a long pour time and high residual peroxide for cold cure denture repairs.
- **Colacryl® TS2027** produces a high clarity prosthesis, sets after a short curing cycle, and can be used for repairs, relines and additions to existing dentures.
- **Colacryl® TS2073** can also be formulated with barbituric acid derivatives and co-catalysts to provide a low-yellowing system.

Product Range

Application	Colacryl® Grade	Average Particle Size	Residual Peroxide	Dough Time (minutes)	Snap Time (minutes)	Work Time (minutes)	Mixing Ratio Powder/Liquid	Recommended Colacryl® Liquid
Denture Base	D80FC	50-60µ	0.29 ± 0.04%	20-30	35 maximum	15 minimum	24g/10ml	TS1547
	PD115G	55-73µ	0.33 ± 0.06%	08-13	15 maximum	45 minimum	24g/10ml	
	DP300	80-100µ	0.25 ± 0.10%	30-45	50 maximum	20 minimum	24g/10ml	
Tooth	D150	40-56µ	0.50 ± 0.10%	10-20	25 maximum	15 minimum	24g/10ml	TS1503
	TS1890	35-55µ	0.20% max.	18-30	40 maximum	20 minimum	19g/10ml	
	TS2198	30-46µ	0.26 ± 0.04%	10-20	25 maximum	15 minimum	24g/10ml	
Orthodontics	TS1672	55-75µ	0.55 ± 0.10%	n/a	n/a	n/a	'salt and pepper'	TS1505
	TS1794/2	72-88µ	0.78 ± 0.18%					

Application	Colacryl® Grade	Average Particle Size	Residual Peroxide	Pour Time (minutes)	Set Time (minutes)	Mixing Ratio Powder/Liquid	Recommended Colacryl® Liquid
Denture Repair	D1-120	32-48µ	2.50 ± 0.20%	2-5	16-23	21g/12ml	TS1504
	TS2027	60-76µ	1.10 ± 0.20%	2-3	14-20	13g/10ml	
	TS2073	40-45µ	0.35 ± 0.15%	3-5	20-26	20g/11ml	



Tooth

Our Colacryl® brand tooth polymers are characterized by precisely controlled particle sizes, creating free-flowing microscopic acrylic beads which rapidly absorb dental liquids.

- **Colacryl® D150** is our best-selling tooth polymer, offering a combination of fast cure time with outstanding aesthetics and strength.
- **Colacryl® TS1890** offers extended dough time with easy mixing properties and low residual peroxide.
- **Colacryl® TS2198** has an extra-fine particle size which allows faster absorption.

Orthodontics

With medium to high molecular weights, and no porosity, our acrylics allow the manufacture of hard-wearing dental prosthetics with perfect fit.

- **Colacryl® TS1672** has been designed specifically for the manufacture of high-quality orthodontic appliances, with excellent slump resistance and liquid absorption.
- **Colacryl® TS1794/2** has excellent pigment acceptance, superior clarity, and offers improved pile stability.

We also offer a range of additive products designed to modify performance or handling characteristics:-

- Reducing the dough time of denture base
- Increasing the working time of denture base
- Shortening the setting time of denture repairs
- Improving tooth hardness and stain resistance

➤ Specialty Applications

Application	Colacryl® Grade	Properties	Recommended Colacryl® Liquid
CAD/CAM	D150	Fine free-flowing bead polymers for easy mixing and short cure cycles	TS1503
Denture Reline	TS1364/1	For tissue conditioners and temporary cushioning of dentures	TS2023
Ear Molds	TS1742	Plasticizer-free resin for heat-cured, soft materials	TS1741
Impression Trays	TS1215	For fast-doughing impression tray fabrication	TS1421
	TS1278	For slow-doughing impression tray fabrication	TS1277
Temporary Crown & Bridge	TS2084	For heat-cured restorative crowns	TS1502
Tooth Additives	TS1352	Cross-linked polymer for increased hardness and stain resistance	
	TS1697		

Properties as indicated are for information only and are not to be taken as guarantee of product specification.

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