



***Your supplier for  
medical plastics and specialities***



## ***Medical Portfolio***

Skin Adhesives  
Silicone Elastomers  
Silicone Coatings and Lubricants  
Silicone Tubings  
Device Adhesives and Encapsulants

Polyolefins  
Styrenics  
Flexible Polymers  
Transparent Polymers  
Engineering Polymers  
High Performance Polymers

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**SK CHEMICALS -- PET and PETG**

SKYPET® PET  
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**DuPont - Polyoxymethylene-Homopolymers**

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Hytril®

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Clasid®

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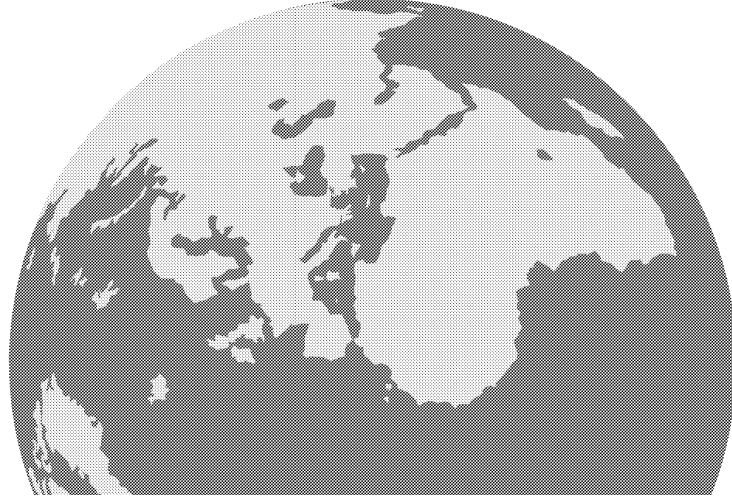
**LG -- Methylmethacrylate - Acrylonitril - Butadiene**

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**BASF PU -- Thermoplastic Polyurethane (TPU)**

Elastollan® Ether-TPU

*Our principals for medical specialties*



## **Silicone Coatings and Lubricants**

### **Dow Corning®**

#### **Non-Curing Siliconisation Fluid**

Product	Description
360 Medical Fluid	20 cSt Polydimethylsiloxane
100 cSt	Dimethicones in various viscosities
350 cSt	Sectral® ethylenediamine controlled
1000 cSt	
12500 cSt	
365 35% Dimethicones NF Emulsion	Emulsion containing 35 % of
366 35% Dimethicones NF Emulsion	Dow Corning® 360 Medical Fluid

- Lubricants for medical device components, glass, metals, plastics and rubbers
  - Hydrophobic: Dow Corning® 360 Medical Fluid
  - Water-dilutable: Dow Corning® 365 and Dow Corning® 366, 35% Dimethicones NF Emulsion
- Siliconisation of syringes, vials, ampoules, stoppers, filaments and medical devices

#### **Curing Siliconisation Fluid**

Product	Description
MDX4-4159 80% Medical Grade Dispersion	50 % dispersion of an amine functional dimethylsiloxane copolymer

- Cures at room temperature to form a dry coating
- Lubricant for cutting edges, hypodermic needles and catheters

#### **Solvent for Siliconisation**

Product	Description
Q7-9180 Silicone Fluid	0.65 cSt 1.0 cSt Hexamethyldisoxane Octamethyltrisiloxane High purity volatile silicone fluids

- Solvent for Dow Corning® 360 Medical Fluid and MDX4-4159 80% Medical Grade Dispersion

### **Chemours™**

#### **Solvent for Siliconisation**

Product	Description
Vertrel® X-Si specialty fluid	Blend of Vertrel® XF hexafluorodisoxane and hexamethyldisoxane

- Solvent for Dow Corning® 360 Medical Fluid and MDX4-4159 80% Medical Grade Dispersion

## Silicone Skin Adhesives

### Dow Corning® Silicone Adhesive Pressure Sensitive Adhesives (PSA)

Product	Description	Grade
MG-2401 Silicone PSA	Solvent: Hexamethylcyclotrioxane Medium tack 32 % solid content	Medical device Grade
MG-2501 Silicone PSA	Solvent: Ethyl Acetate Medium tack 94 % solid content	Cytotoxicity, Skin Irritation & Skin Sensitization in compliance with ISO 10993
MG-2502 Silicone PSA	Solvent: Ethyl Acetate High tack 50% solid Content	One-Part, polycondensed Polydimethyl siloxane/ silicate resin adhesive
MG-2x10 Silicone PSA	Hot-Melt Very High tack Melt viscosity: 30,000 cP	

- High adhesion and conformity to skin
- Extended wearing schemes
- High gas and moisture permeability
- Non-Sensitizing, Non-Irritating
- Adhesive of dressings, prosthetics, sensors and other devices to the body

### Soft Skin Adhesives (SSA)

Product	Description	Application
7-9700 Soft Skin Adhesive	Two-part, platinum-catalyzed, soft, fluoride silicone dielectric adhesive	Medical devices
MG 7-9800 Soft Skin Adhesive	Transparent	
MG 7-9900 Soft Skin Adhesive	Low viscosity Solvent free	

- For scar therapy, wound dressing and other medical device applications providing
- Gentle skin adhesion
- Low peel release force
- Adhesion properties are maintained after several applications

### Complementary products

Product	Description	Grade
IT CF 060x Adhesion promoter	Titanium Tetrafluoride Primer dispersed in volatile silicone solvent	Precedence of use in medical device applications
7-4107 Silicone Elastomer Membrane	Soft flexible silicone backing substrate Layer thickness: ~ 75 µm Supplied on polycarbonate carrier	Made from GC Shore Medical Grade liquid Silicone Rubber

## Device Adhesives and Encapsulants

### Dow Corning® RTV – Low Consistency Rubber

Product	Description
SILASTIC® MDX4-4210 Medical Grade Elastomer	Two-part, platinum-catalyzed, room-temperature-curing and pourable silicone elastomer

- Biomedical Grade
- Medical Device Encapsulation, Mold making and Prototyping

### RTV Adhesive

Product	Description
Silastic® Medical Adhesive Silicone, Type A	One-part, low-slump, transparent silicone material, solventless Cures at room temperature between 50-60 °C, relative humidity

- Assembling and sealing of medical device components
- Encapsulating of electrical components for medical devices
- Can be diluted with O7-0160 Fluids to desired concentration and viscosity

### Soft Filling Elastomer

Product	Description
7-9600 Soft Filling Elastomer	Two-part, platinum-catalyzed unfilled silicone elastomer

- Filling material for external form prostheses and pressure cushions

## Cyberbond Cyanoacrylate Adhesives

Product	Description	Grade
Ethylester	Cyanoacrylate with extremely good aging properties Fluorazene optional Excellent adhesives for Rubber to Rubber, Rubber to Plastic and Plastic to Plastic applications Viscosity range from 3-2000 mPa*s	ISO 10993-5, 10, -11
Powerdrop® Ethylester	Carefully stabilized, fast bonding Cyanoacrylates Viscosity range from 7-85 mPa*s	ISO 10993-5
Xtraflex (rubber toughened) modified Ethylester	Partly flexible respectively rubber toughened Cyanoacrylates For dynamic and temperature loaded bonds A certain shock resistance is guaranteed Very good results for Metal to Plastic and Metal to Rubber combinations Viscosity range from 130-3000 mPa*s	ISO 10993-5
Low Odour Alkoxyester	Low odour, low bleeding, low outgassing characteristics Viscosity range from 3-1500 mPa*s	ISO 10993-5

- One component systems
- Solvent free
- Fast curing
- High bonding strength

### Cyanoacrylate Adhesive primer

Product	Description	Grade
Boost 8070	Heptane based adhesion promoter Colorless liquid, low viscosity Increases bonding ability of difficult substrates such as silicone rubber & PTFE	ISO 10993-5

- Apply to substrate surface by wiping, brushing or spraying before application of adhesive

### UV-Curing Adhesives

Product	Description	Grade
Medical UV Products	One component, solvent free and cold curing systems Fast curing Viscosity range from 600-7000 mPa*s	ISO 10993-5

- Recommended by needle bonding
- LIROP dosing and curing equipment offered as product periphery

## Silicone Elastomers

### Dow Corning® Silicone Elastomers High Consistency Rubber (HCR)

Product	Description	Grade
QPT-xx Silicone Elastomer	Uncatalyzed silicone rubber base Processable by peroxide or addition cure For additional cure cross linkers, catalysts and cure inhibitors are offered separately x,c available in various diameters (30, 50, 60, 70)	A B
C6-1xx Silicone Elastomer	Two-part, platinum catalyzed HCR x,c available in various diameters (35, 50, 60, 80)	A B
C6-2xx Silicone Elastomer	One-part, enhanced tear resistant HCR HCR for peroxide cure Peroxide initiator selected by customer x,c available in various diameters (35, 50, 60)	A B
C6-350 LH	Two-part, platinum catalyzed HCR EO Shore Low Hysteresis for Demanding applications like peristaltic pump tubing	A B
Silastic® Q7-47xx BioMedical Grade HCR	Two-part, platinum-catalyzed, enhanced tear-resistant silicon elastomers x,c available in various diameters (20, 35, 50, 65, 80)	A B
Silastic® Q7-48xx BioMedical Grade HCR	One-component, peroxide-cured, enhanced tear-resistant silicone elastomers x,c available in various diameters (35, 50, 65)	A B

- Fabrication of medical/surgical/diagnostic devices and components
- Fabrication of extruded parts

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