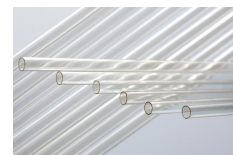


Product Information

**VESTAMID® Care ME62-B**

**POLYAMIDE 12 ELASTOMER MOLDING COMPOUNDS**



VESTAMID® Care ME62-B is free of plasticizers, heat and light stabilized. VESTAMID® Care ME62-B is resistant to body fluids and toxicologically safe.

VESTAMID® Care ME-B grades are engineered to adhere to different polymer types in a multi-layer tube or film extrusion without the need of adhesives, compatibilizers or additives that might migrate out of the device.

VESTAMID® Care ME-B grades are flexible polyether block amides (PEBA) resins.

**The advantages at a glance:**

- High flexibility & elasticity
- Good rebound properties
- High impact resistance
- Excellent dimensional stability
- High chemical resistance
- Easy processability & colorability
- Plasticizer-free
- Gamma and EtO sterilization resistant
- Tough and resilient

**Biocompatibility of VESTAMID® Care ME-B**

Biocompatibility was tested following ISO10993-1 recommendations for a surface medical device with up to 30 days body contact.

The material fulfills the requirements of USP<88> class VI.

Tests were performed by independent, certified laboratories.

**Biocompatibility tests for VESTAMID® Care:**

Standard	Description
ASTM F756-08	Hemocompatibility
ISO 10993-5	Cytotoxicity
ISO 10993-10	Sensitization: Maximization test according to Magnusson and Kligman
ISO 10993-10	Irritation: Intracutaneous Reactivity
ISO 10993-11	Acute Systemic Toxicity
USP Class VI	Acute Systemic Toxicity Intracutaneous Reactivity Muscle Implantation

The results presented were generated from a small number of production lots. They are therefore provisional and not yet the result of a statistical analysis.

**Key Features**

**Industrial Sector**  
Medical Devices

**Processing**  
Injection molding

**Delivery form**  
Pellets, Granules

**Conformity**  
Biocompatibility, Medical application

**Additives**  
Unfilled

LCA-values	dry	Unit	Test Standard
LCA certifier	<a href="#">TÜV Rheinland</a>	-	ISO 14040, 14044
Blue water consumption	<b>24.3</b>	kg	ISO 14040, 14044
Global Warming Potential incl. bio. C incl. LUC	<b>6.5</b>	kg CO <sub>2</sub> eq./kg	ISO 14040, 14044
Global Warming Potential excl. bio. C incl. LUC	<b>6.5</b>	kg CO <sub>2</sub> eq./kg	ISO 14040, 14044
Land use (ReCiPe 2016)	<b>0</b>	Annual crop eq. y	ISO 14040, 14044

Mechanical properties ISO	dry / cond	Unit	Test Standard
Tensile modulus	<b>75400 / -</b>	psi	ISO 527
Stress at 50% strain	<b>3770 / -</b>	psi	ISO 527
Stress at break	<b>4930 / -</b>	psi	ISO 527
Nominal strain at break, tB	<b>&gt;50 / -</b>	%	ISO 527
Typical for the mat. nom. strain at br., tB	<b>300</b>	%	ISO 527
Charpy impact strength, +23°C	<b>N / -</b>	ftlb/in <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>N / -</b>	ftlb/in <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>23.8 / -</b>	ftlb/in <sup>2</sup>	ISO 179/1eA
Type of failure	<b>C / -</b>	-	-

Charpy notched impact strength, -30°C	<b>3.33 / -</b>	ftlb/in <sup>2</sup>	ISO 179/1eA
Type of failure	<b>C / -</b>	-	-

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Melting temperature	<b>345 / *</b>	°F	ISO 11357-1/-3
Temp. of deflection under load A, 1.80 MPa	<b>110 / *</b>	°F	ISO 75-1/-2
Temp. of deflection under load B, 0.45 MPa	<b>202 / *</b>	°F	ISO 75-1/-2
Vicat softening temperature A, 10 N, 50 K/h	<b>336 / *</b>	°F	ISO 306

<b>Physical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1.01 / -</b>	g/cm <sup>3</sup>	ISO 1183
Water absorption	<b>0.037 / *</b>	%	Sim. to ISO 62
Shore D hardness	<b>63<sup>[b]</sup> / -</b>	-	ISO 7619-1

b: 3 seconds

<b>Burning Behav.</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Burning behav. at 1.5 mm nom. thickn.	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>0.0630 / *</b>	in	-
Oxygen index	<b>22.8 / *</b>	%	ISO 4589-1/-2

<b>Optical properties</b>	<b>dry</b>	<b>Unit</b>	<b>Test Standard</b>
Color b	<b>10</b>	-	CIE

<b>Rheological properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Melt volume-flow rate, MVR	<b>12 / *</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>230 / *</b>	°C	-
Load	<b>2.16 / *</b>	kg	-

<b>Polymer analytics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Viscosity number	<b>4710 / *</b>	in <sup>3</sup> /lb	ISO 307, 1157, 1628

## VESTAMID® Care

Amino end group	<b>48</b>	mmol/kg	Evonik standard
Carboxyl end group	<b>33</b>	mmol/kg	Evonik standard

### Characteristics

#### Special Characteristics

Light-stabilized, High heat resistant

#### Features

Low coefficient of friction

#### Regulatory

US Pharmacopeia Class VI conformity

#### Color

Natural color

#### Chemical Resistance

General chemical resistance