

Product Information

VESTAMID® LXM8

MEDIUM-VISCOSITY, GLASS FIBER-REINFORCED, HEAT- AND UV-STABILIZED PA12 COMPOUND

VESTAMID® LXM8 is a medium-viscosity, glass fiber-reinforced and heat-stabilized polyamide 12 compound with good applicability for sport components such as shoe soles requiring very good fatigue performance and bonding ability to TPUs. Parts made of the semi-crystalline polyamide VESTAMID® LXM8 are characterized by excellent dimensional stability, constantly high impact strength, low coefficient of friction, good chemical resistance at changing ambient humidity, and excellent bonding strength to TPU. VESTAMID® LXM8 is suitable for manufacturing injection molded parts with efficient cycle times.

VESTAMID® LXM8 is supplied as cylindrical granules ready for processing, in moisture barrier bags. Inside the original and undamaged packaging the product has a shelf life of at least two years when stored in dry rooms at temperatures not exceeding 30°C.

Key Features

Industrial Sector

Sports and Lifestyle

Processing

Injection molding

Delivery form

Pellets, Granules

Optics

Translucent

Resistance to

Heat (thermal stability), UV / light / weathering, Fatigue resistance

Electrical

Insulating

Additives

Glass fibers

LCA-values

LCA name of certificate

dry

[VESTAMID® CW modified GF](#)

Unit

-

Test Standard

ISO 14040, 14044

LCA certifier

[TÜV Rheinland](#)

-

ISO 14040, 14044

Blue water consumption

237.7

kg

ISO 14040, 14044

Global Warming Potential incl. bio. C incl. LUC	6.3	kg CO ₂ eq./kg	ISO 14040, 14044
Global Warming Potential excl. bio. C incl. LUC	6.6	kg CO ₂ eq./kg	ISO 14040, 14044
Land use (ReCiPe 2016)	2.9	Annual crop eq. y	ISO 14040, 14044
GWP savings as compared to 2023 reference	-1.6	kg CO ₂ eq./kg	ISO 14040, 14044

Mechanical properties ISO	dry / cond	Unit	Test Standard
Tensile modulus	2270 / -	MPa	ISO 527
Stress at break	55 / -	MPa	ISO 527
Strain at break, B	16 / -	%	ISO 527
Charpy impact strength, +23°C	90 / -	kJ/m ²	ISO 179/1eU
Type of failure	C / -	-	-
Charpy impact strength, -30°C	95 / -	kJ/m ²	ISO 179/1eU
Type of failure	C / -	-	-
Charpy notched impact strength, +23°C	11 / -	kJ/m ²	ISO 179/1eA
Type of failure	C / -	-	-
Charpy notched impact strength, -30°C	6 / -	kJ/m ²	ISO 179/1eA
Type of failure	C / -	-	-
Flexural modulus, 23°C	1890 / -	MPa	ISO 178

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature	180 / *	°C	ISO 11357-1/-3

Physical properties	dry / cond	Unit	Test Standard
Density	1060 / -	kg/m ³	ISO 1183
Water absorption	0.25 / *	%	Sim. to ISO 62
Humidity absorption	0.14 / *	%	Sim. to ISO 62
Shore D hardness	75 / -	-	ISO 7619-1
Density	1060	kg/m ³	ASTM D 792

Optical properties

	dry	Unit	Test Standard
Color L	63.7	-	CIE
Color a	-2.7	-	CIE
Color b	4	-	CIE

Rheological properties

	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4 / *	%	ISO 294-4, 2577
Mold temperature	60 / *	°C	-
Melt temperature	240 / *	°C	-

Characteristics

Applications

General purpose

Special Characteristics

Semi-crystalline, Light-stabilized, U.V. stabilized

Color

Natural color

Additives

Antioxidant agent, Light stabilizer

Delivery form

Cylindrical pellets