

Product Information

VESTAMID® LX9012 T10

HEAT STABILIZED AND LIGHT RESISTANT PA12 COMPOUND

VESTAMID® LX9012 T10 has been specially designed for application in injection molded sport shoe soles. Parts made of VESTAMID® LX9012 T10 feature good bonding performance, good transparency, high flow ability, good screen and sublimation printing, outstanding scratch resistance, and excellent impact strength at low temperatures. The semi-crystalline compounds based on PA12 absorb only low quantities of water. Therefore, molded parts show excellent dimensional stability, constantly high impact strength, low coefficient of friction and good chemical resistance at changing ambient humidity. VESTAMID® LX9012 T10 is supplied as cylindrical granules, ready for processing in moisture-proof packaging.

Inside the original and undamaged packaging the product has a shelf life of at least 2 years when stored in dry rooms at temperatures not exceeding 30°C.

Key Features

Industrial Sector

Sustainable, Sports and Lifestyle

Optics

Translucent

Sustainability

Sustainable electricity

Resistance to

Fatigue resistance

Processing

Injection molding

Electrical

Insulating

Delivery form

Pellets, Granules

Additives

Lubricant, Unfilled

LCA-values

LCA name of certificate

dry

[VESTAMID® LX modified low](#)

Unit

-

Test Standard

ISO 14040, 14044

LCA certifier

[TÜV Rheinland](#)

-

ISO 14040, 14044

Blue water consumption

190.7

kg

ISO 14040, 14044

Global Warming Potential incl. bio. C incl. LUC	5.5	kg CO ₂ eq./kg	ISO 14040, 14044
Global Warming Potential excl. bio. C incl. LUC	5.7	kg CO ₂ eq./kg	ISO 14040, 14044
Land use (ReCiPe 2016)	2.4	Annual crop eq. y	ISO 14040, 14044
GWP savings as compared to 2023 reference	-3.1	kg CO ₂ eq./kg	ISO 14040, 14044

Mechanical properties ISO	dry / cond	Unit	Test Standard
Tensile modulus	1170 / -	MPa	ISO 527
Yield stress	37 / -	MPa	ISO 527
Yield strain	5 / -	%	ISO 527
Stress at break	53 / -	MPa	ISO 527
Nominal strain at break, tB	>50 / -	%	ISO 527
Charpy impact strength, +23°C	N / -	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	8 / -	kJ/m ²	ISO 179/1eA
Type of failure	C / -	-	-
Flexural modulus, 23°C	900 / -	MPa	ISO 178

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature	176 / *	°C	ISO 11357-1/-3
Melting Temperature	176	°C	ASTM D 3418

Physical properties	dry / cond	Unit	Test Standard
Density	1020 / -	kg/m ³	ISO 1183
Shore D hardness	72 / -	-	ISO 7619-1
Density	1020	kg/m ³	ASTM D 792

Rheological properties	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	1.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3 / *	%	ISO 294-4, 2577

VESTAMID®

Mold temperature	80 / *	°C	-
Melt temperature	240 / *	°C	-

Characteristics

Applications

General purpose

Special Characteristics

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

Features

Lightweight

Color

Natural color

Additives

Antioxidant agent, Light stabilizer

Delivery form

Cylindrical pellets