

Product Information

VESTAMID® L1940 BK 9.7504

MEDIUM-VISCOSITY PA12 RESIN FOR THE EXTRUSION AND INJECTION MOULDING

VESTAMID® L1940 BK 9.7504 is a heat-stabilized polyamide 12 compound for injection molding and for the extrusion wire insulation.

Properties of compounds based on PA12 vary little with changing humidity due to low moisture absorption. Parts made of this semi-crystalline material are characterized by exceptional impact strength, low coefficient of friction and good chemical resistance.

Pigmentation may affect values.

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

Automotive and Mobility, Sustainable, Industry and Engineering

Sustainability

Sustainable electricity

Processing

Injection molding

Delivery form

Pellets, Granules

Resistance to

Heat (thermal stability), UV / light / weathering, Oil / fuels

Electrical

Insulating

Conformity

Food contact, Automotive

Additives

Unfilled

LCA-values

LCA name of certificate

dry

[VESTAMID® L Compound low](#)

Unit

-

Test Standard

ISO 14040, 14044

LCA certifier

[TÜV Rheinland](#)

-

ISO 14040, 14044

Blue water consumption	25.7	kg	ISO 14040, 14044
Global Warming Potential incl. bio. C incl. LUC	6.1	kg CO ₂ eq./kg	ISO 14040, 14044
Global Warming Potential excl. bio. C incl. LUC	6.1	kg CO ₂ eq./kg	ISO 14040, 14044
Land use (ReCiPe 2016)	0.1	Annual crop eq. y	ISO 14040, 14044
GWP savings as compared to 2023 reference	-2.5	kg CO ₂ eq./kg	ISO 14040, 14044

Mechanical properties ISO	dry / cond	Unit	Test Standard
Tensile modulus	225000 / -	psi	ISO 527
Tensile strength	6670 / -	psi	ISO 527
Yield stress	6670 / -	psi	ISO 527
Yield strain	7 / -	%	ISO 527
Stress at 50% strain	5080 / -	psi	ISO 527
Stress at break	7690 / -	psi	ISO 527
Nominal strain at break, tB	245 / -	%	ISO 527
Charpy notched impact strength, +23°C	1.9 / -	ftlb/in ²	ISO 179/1eA
Type of failure	C / -	-	-
Flexural modulus, 23°C	209000 / -	psi	ISO 178

Thermal properties	dry / cond	Unit	Test Standard
Melting temperature	351 / *	°F	ISO 11357-1/-3
Glass transition temperature, DSC	104 / *	°F	ISO 11357-1/-2
Melting Temperature	351	°F	ASTM D 3418

Burning Behav.	dry / cond	Unit	Test Standard
UL Yellow Card available	yes / *	-	-
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.0591 / *	in	-
Burnin behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.1181 / *	in	-

Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.0319 / *	in	-

Rheological properties	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	1.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3 / *	%	ISO 294-4, 2577
Mold temperature	176 / *	°F	-
Melt temperature	464 / *	°F	-

Characteristics

Applications

Electrical and Electronical, Fiber optic cable, Cable sheathing

Color

Black

Special Characteristics

Medium viscosity