

Product Information

VESTAMID® D16 stabilized

MEDIUM-VISCOSITY PA612 RESIN

VESTAMID® D16 stabilized is a medium-viscosity Polyamide 612 compound for extrusion and injection moulding of e.g. monofilaments (toothbrush bristles).

The material based on PA612 absorbs only small amounts of water. Components made of this material therefore show excellent dimensional stability under changing ambient humidity.

VESTAMID® D16 stabilized is supplied as cylindrical granules in moisture-proof polyethylene containers ready for processing.

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

Sustainable, Industry and Engineering, Sports and Lifestyle

Additives

Unfilled

Sustainability

Sustainable electricity

LCA-values

	dry	Unit	Test Standard
LCA name of certificate	VESTAMID® D	-	ISO 14040, 14044
LCA certifier	TÜV Rheinland	-	ISO 14040, 14044
Blue water consumption	9.9	kg	ISO 14040, 14044
Global Warming Potential incl. bio. C incl. LUC	7.2	kg CO ₂ eq./kg	ISO 14040, 14044

Global Warming Potential excl. bio. C incl. LUC	7.2	kg CO ₂ eq./kg	ISO 14040, 14044
Land use (ReCiPe 2016)	0	Annual crop eq. y	ISO 14040, 14044
GWP savings as compared to 2023 reference	-0.8	kg CO ₂ eq./kg	ISO 14040, 14044

Mechanical properties ISO	dry / cond	Unit	Test Standard
Tensile modulus	305000 / -	psi	ISO 527
Tensile strength	8410 / -	psi	ISO 527
Yield stress	8410 / -	psi	ISO 527
Yield strain	4 / -	%	ISO 527
Stress at 50% strain	5950 / -	psi	ISO 527
Stress at break	6090 / -	psi	ISO 527
Nominal strain at break, tB	75 / -	%	ISO 527

Test specimen production	dry	Unit	Test Standard
Injection Molding, melt temperature	482	°F	ISO 294
Injection Molding, mold temperature	176	°F	ISO 294
Injection Molding, injection velocity	7.87	in/s	ISO 294