

Product Texts

Medium-viscosity, heat and light stabilized polyamide 12 compound

VESTAMID® LX9041 BK 9.7504 is a heat stabilized and light resistant polyamide 12 compound especially developed for extrusion coating of steel tubes.

Due to the exceptional impact strength, abrasion resistance and good chemical resistance of PA 12 as well as the excellent adhesion between the steel and the properly applied VESTAMID® LX9041 BK 9.7504, the corrosion resistance of steel tubes coated with VESTAMID® LX9041 black is significantly increased.

VESTAMID® LX9041 BK 9.7504 is supplied as cylindrical granules, ready for processing, in moisture-proof bags.

The use of colorants may affect property 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.

For information about processing of VESTAMID®, please follow the general commendations about "[Processing of VESTAMID® compounds](#)".

The values presented are typical or average values, they do not constitute a specification.

FOR FURTHER INFORMATION PLEASE CONTACT US AT EVONIK-HP@EVONIK.COM
OR VISIT OUR PRODUCT AT WWW.VESTAMID.COM

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	17 / *	cm ³ /10min	ISO 1133
Temperature	240 / *	°C	-
Load	2.16 / *	kg	-
^[C] Molding shrinkage, parallel	1.1 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1730 / 1370	MPa	ISO 527
^[C] Yield stress	51 / 44	MPa	ISO 527
^[C] Yield strain	4 / 12	%	ISO 527
^[C] Nominal strain at break	>50 / >50	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	4 / 3.5	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / C	-	-
^[C] Charpy notched impact strength, -30°C	4.3 / 4	kJ/m ²	ISO 179/1eA
^[C] Type of failure	C / C	-	-

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	177 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	44 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	48 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	120 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	141 / *	°C	ISO 306
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.7 / 4.4	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.1 / 3.2	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	330 / 610	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	195 / 363	E-4	IEC 62631-2-1
^[C] Volume resistivity	9.3E12 / 4.9E12	Ohm*m	IEC 62631-3-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.3 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.7 / *	%	Sim. to ISO 62
^[C] Density	1020 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	240	°C	ISO 294
Injection Molding, mold temperature	60	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

[C]: CAMPUS

Characteristics

Processing

Coating

Delivery form

Pellets, Black

Special Characteristics

High impact or impact modified, Light stabilized or stable to light, Heat stabilized or stable to heat

Features

Good Adhesion

Chemical Resistance

General Chemical Resistance

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa