

Product Texts

High viscosity, plasticized, impact modified, heat- and light stabilized polyamide 12 compound

VESTAMID® X7393 BK 9.7507 is high viscosity, plasticized, impact modified, heat- and light stabilized polyamide 12 compound for flexible tubing and hoses for the automobile industry according to DIN 73 378 and DIN 74 324, Type PA 12-PHLY.

Parts made of VESTAMID® X7393 BK 9.7507 are characterized by optimized cold temperature impact resistance for the extrusion of semi-rigid tubing with increased burst pressure resistance as well as exceptional low coefficient of friction and good chemical resistance. Properties of compounds based on Polyamide 12 vary little with changing humidity due to their low moisture absorption.

VESTAMID® X7393 BK 9.7507 is supplied as pellets, ready for use, 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	8 / *	cm ³ /10min	ISO 1133
Temperature	230 / *	°C	-
Load	5 / *	kg	-
^[C] Molding shrinkage, parallel	0.8 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.4 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	560 / 495	MPa	ISO 527
^[C] Yield stress	31 / 28	MPa	ISO 527
^[C] Yield strain	26 / 26	%	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	115 / 124	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	8 / 8	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	173 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	24 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	45 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	115 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	130 / *	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	140 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	140 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10

Thickness tested	1.6 / *	mm	-
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[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	7 / -	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	4.2 / -	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	1900 / -	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	1100 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E10 / -	Ohm*m	IEC 62631-3-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.2 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.6 / *	%	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	220	°C	ISO 294
Injection Molding, mold temperature	60	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294
Injection Molding, pressure at hold	70	MPa	ISO 294

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Pipe/Tube Extrusion, Profile Extrusion, Other Extrusion

Delivery form

Pellets, Black

Additives

Lubricants, Plasticizer

Special Characteristics

High impact or impact modified, Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Features

Tribologic Grade

Chemical Resistance

General Chemical Resistance

Applications

Automotive

Regional Availability

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