VESTAMID® DX9302 BK E70178

PA612-I | Evonik Operations GmbH

Product Texts

Impact-modified, heat- and lightstabilized polyamide 612 compound for extrusion

VESTAMID® DX9302 BK E70178 has been developed for the production of flexible, impact resistant extruded parts, especially tubes.

Its composition makes VESTAMID® DX9302 BK E70178 suitable for the extrusion of tubes for windshield washer systems that have only small amounts of extractables substances in water/alcohol mixtures.
Further advantages of VESTAMID® DX9302 BK E70178 are the typical properties of PA 612 like little water adsorption, good dimensional stability and almost constant mechanical properties at changing ambient humidity.

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.

For information about processing of VESTAMID®, please follow the general recommendations 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] Molding shrinkage, parallel	**1.9 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.2 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**1150 / 850**	MPa	ISO 527
[C] Yield stress	**31 / 26**	MPa	ISO 527
[C] Yield strain	**15 / 23**	%	ISO 527
[C] Nominal strain at break	**>50 / >50**	%	ISO 527
[C] Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**95 / 100**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**19 / 17**	kJ/m²	ISO 179/1eA
[C] Type of failure	**C / C**	-	-
[C] Tensile notched impact strength, +23°C	**158 / 199**	kJ/m²	ISO 8256/1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**215 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**50 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**140 / ***	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**170 / ***	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**1.7 / ***	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	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			

[C] Relative permittivity, 100Hz	**3.8 / -**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**3 / -**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**470 / -**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**310 / -**	E-4	IEC 62631-2-1
[C] Volume resistivity	**1E12 / -**	Ohm*m	IEC 62631-3-1
[C] Electric strength	**41 / -**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**600 / -**	-	IEC 60112

[C]: CAMPUS

Other properties	**dry / cond**	**Unit**	**Test Standard**
[C] Water absorption	**2.2 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**0.5 / ***	%	Sim. to ISO 62
[C] Density	**1020 / 1020**	kg/m³	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	**35**	°C	ISO 294
Injection Molding, injection velocity	**200**	mm/s	ISO 294

[C]: CAMPUS

Characteristics

Processing
Pipe/Tube Extrusion, Profile Extrusion, Other Extrusion

Delivery form
Pellets, Black

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

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