

Product Information

VESTAMID® L1670

Low viscosity, heat and light stabilized Polyamide 12 compound

VESTAMID L1670 has been developed especially for the extrusion of thin wire insulations and cable jacketings.

VESTAMID L1670 coatings exhibit a low coefficient of friction which facilitates the laying of cable.

Switchboard wiring isolated with VESTAMID L1670 can be soldered with no worry of interference by the plastic resin. The wiring can be soldered without the need to strip the isolating layer.

Jacketing of VESTAMID L1670 protects buried cables from attack by termites.

This partially crystalline Polyamide 12 bases compounds have a very low water absorption. Therefore products produced from VESTAMID L1670 maintain their dimensions in environments with varying humidity levels, while maintaining a high tenacity, a low coefficient of friction and good chemical resistance.

VESTAMID L1670 is supplied as cylindrical granules, ready for processing in moisture-proof packaging.

Property	Test method		Unit	VESTAMID L1670	
	international	national			
Density	23 °C	ISO 1183	DIN EN ISO 1183	g/cm ³	1.01
Tensile test	50 mm/min	ISO 527-1	DIN EN ISO 527-1		
Stress at yield		ISO 527-2	DIN EN ISO 527-2	MPa	46
Strain at yield				%	6
Strain at break				%	> 50
Tensile modulus		ISO 527-1	DIN EN ISO 527-1	MPa	1400
		ISO 527-2	DIN EN ISO 527-2		
CHARPY impact strength	23 °C	ISO 179/1eU	DIN EN ISO 179/1eU	kJ/m ²	N ¹⁾
	-30 °C			kJ/m ²	N ¹⁾
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23 °C			kJ/m ²	4 C ¹⁾
	-30 °C			kJ/m ²	5 C ¹⁾
Temperature of deflection under load		ISO 75-1	DIN EN ISO 75-1		
		ISO 75-2	DIN EN ISO 75-2		
Method A	1.8 MPa			°C	50
Method B	0.45 MPa			°C	120
Comparative tracking index		IEC 60112	IEC 60112		
Test solution A	CTI				
	50 drops value				> 600
	100 drops value				600
Glow wire test		IEC 60695-2-	DIN EN 60695-2-		
GWIT	1 mm	12/13	12/13	°C	850
GWFI	1 mm			°C	960
Glow wire test		IEC 60695-2-	DIN EN 60695-2-		
GWIT	2 mm	12/13	12/13	°C	850
GWFI	2 mm			°C	960
Viscosity number		ISO 307	DIN EN ISO 307	cm ³ /g	120
Water absorption		ISO 62	DIN EN ISO 62		
	saturation			%	1.4
Moisture absorption		ISO 62	DIN EN ISO 62		
	23 °C/50 % r.h.			%	0.7

Pigmentation may affect values.

¹⁾ C = Complete break, incl. hinge break H
N = No break