

## 产品说明

High-viscosity, plasticized compound for extrusion with an extraordinary longterm heat resistance

VESTAMID LX9013 is a plasticized polyamide 12 compound with an especially high longterm resistance under thermal load. The material absorbs only little moisture, thus leading to nearly unaffected dimensions and properties of the finished parts at changing ambient conditions. Extruded tubes are impact-resistant also at low temperatures.

VESTAMID LX9013 is suited to produce flexible tubes that are permanently exposed to higher temperatures, e.g., in the engine compartment of motor vehicles. Especially when used as diesel fuel lines they show significant advantages compared with standard grades, obvious in storage tests with diesel fuel (see the figure).

The material corresponds to the extrusion compound PA 2-HI PHL, grade1 acc. DIN 73378 and meets the requirements acc. DIN 74324 (black), ISO 7628 and SAE J844.

总体

材料状态	已商用：当前有效		
供货地区	北美洲	欧洲	
添加剂	热稳定剂	增塑剂	
	尺寸稳定性良好	良好的耐热老化性能	
性能特点	经增塑	耐低温撞击	粘度，高
	抗撞击性，良好	吸潮性差	
用途	管道	汽车领域的应用：	燃料管线
机构评级	DIN 73378 PA 2-HI PHL,	DIN 74324 <sup>2</sup>	SAE J844
形式	颗粒料		
加工方法	挤出		
物理性能	额定值	单位制	测试方法
密度		1.02 g/cm <sup>3</sup>	ISO 1183
机械性能	额定值	单位制	测试方法
拉伸模量		400 MPa	ISO 527-2
拉伸应力			ISO 527-2
断裂		43 MPa	
50%应变		30 MPa	
断张率	> 150	%	ISO 527-2
...	额定值	单位制	测试方法

简支梁缺口冲击强度			ISO 179/1eA
-30° C, 完全断裂		7 kJ/m <sup>2</sup>	
23° C, 局部断裂		140 kJ/m <sup>2</sup>	
简支梁缺口冲击强度			ISO 179/1eU
-30° C	无断裂		
23° C	无断裂		
悬壁梁缺口冲击强度 <sup>3</sup> (-40° C)	无断裂		SAE J844, SAE J2260
Impact Strength			ISO 7628/2
-40° C <sup>4</sup>	No Break	J	
23° C <sup>5</sup>	No Break	J	
热性能	额定值	单位制	测试方法
熔融温度 <sup>6</sup>		172 ° C	ISO 11357-3
补充信息	额定值	单位制	测试方法
Hoop Stress - at Burst (23° C)		24.8 MPa	DIN 53758
备注			

<sup>1</sup>通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。

<sup>2</sup>Black

<sup>3</sup>after 24h /110° C, tubing 8x1 mm

<sup>4</sup>as molded, tubing 8x1 mm

<sup>5</sup>72h/ 150° C, tubing 8x1 mm

<sup>6</sup>DSC, 2nd Heating