

# VESTAMID L1670

PA12

性能 Properties	测试方法 Test method	单位 Unit	数值 Value
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**Physical, thermal, mechanical properties and flammability /物理, 热, 机械性能和易燃性**

密度 Density	ISO 1183		g/cm <sup>3</sup>	1.01
熔点 Melting temperature	ISO 3146, ISO 11357	Peak temperature 2. heating	°C	178
负载变形温度 Temperature of deflection under load	ISO 75	Method A 1.8 MPa	°C	50
		Method B 0.45MPa	°C	120
维卡软化温度 Vicat softening temperature	ISO 306	Method A 10N	°C	170
		Method B 50N	°C	140
线性热伸展 Linear thermal expansion	ISO 11359	23-55°C ; determined on specimen 45.15.10 mm	10 <sup>-4</sup> .k <sup>-1</sup>	1.5
易燃性 UL94 Flammability acc. UL94	ISO 60695	1.6mm		HB
		3.2mm		HB
吸水率 Water absorption	ISO 62 Determined on 1 mm thick sheets	23°C, saturation <sup>2)</sup>	%	1.4
		23°C, 50% rel. humid.	%	0.7
模型收缩率 Mold shrinkage	ISO 294-4 Processing cond ac to ISO 1874-2	In flow direction	%	0.9
		In transverse direction	%	1.1
拉伸强度/Tensile test 屈服强度/stress at yield 屈服拉伸率Strain at yield 断裂强度/Stress at break 断裂拉伸率strain at break	ISO 527-1/2		MPa	46
			%	6
			MPa	-
			%	>50
弯曲模量 Tensile modulus	ISO 527-1/2		MPa	1400
悬臂梁冲击强度 CHARPY impact strength <sup>3)</sup>	ISO 179/1eU	23°C	kJ/m <sup>2</sup>	N
		-30°C	kJ/m <sup>2</sup>	N
悬臂梁缺口冲击强度 CHARPY notched impact strength <sup>3)</sup>	ISO 179/1eA	23°C	kJ/m <sup>2</sup>	4C
		-30°C	Kj/m <sup>2</sup>	5C

**Electrical properties /电性能**

相对介电率 Relative permittivity	IEC 60250	23°C/100Hz	-	3.8
		23°C/1MHz	-	2.2
分散因数 Dissipation factor	IEC 60250	23°C/100Hz	10 <sup>-4</sup>	450
		23°C/1MHz	10 <sup>-4</sup>	280
电子强度 Electric strength	ISO 60243-1	K20/P50	kV/mm	27
相对漏电跟踪指数 Comparative tracking index CTI	IEC 60112	Test solution A 50 drops value	-	>600
		100 drops value	-	600
体积电阻率 Volume resistivity	IEC 60093		Ω .cm	10 <sup>15</sup>
电解腐蚀状态 Electrolytic corrosion	IEC 60426		Step	A1

加工温度 (moding temperature)

熔体温度 (melt temperature)	180°C-220°C
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sw=black/黑色

不宜存储在水中

N=no break /无断裂    C=complete /完全断裂    P=partial break /部分断裂

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