

VESTAMID L2122



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 ³	1.03
熔点 Melting temperature	ISO 3146, ISO 11357	Peak temperature 2. heating	°C	170
负载变形温度 Temperature of deflection under load	ISO 75	Method A 1.8 MPa	°C	45
		Method B 0.45MPa	°C	95
维卡软化温度 Vicat softening temperature	ISO 306	Method A 10N	°C	165
		Method B 50N	°C	125
线性热伸展 Linear thermal expansion	ISO 11359	23-55°C ; determined on specimen 45.15.10 mm	10 ⁻⁴ .k ⁻¹	1.7
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 ²⁾	%	-
		23°C, 50% rel. humid.	%	0.5
模型收缩率 Mold shrinkage	ISO 294-4 Processing cond ac to ISO 1874-2	In flow direction	%	0.6
		In transverse direction	%	1.6
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	30
			%	26
			MPa	-
			%	>50
弯曲模量 Tensile modulus	ISO 527-1/2		MPa	490
悬臂梁冲击强度 CHARPY impact strength ³⁾	ISO 179/1eU	23°C	kJ/m ²	N
		-30°C	kJ/m ²	N
悬臂梁缺口冲击强度 CHARPY notched impact strength ³⁾	ISO 179/1eA	23°C	kJ/m ²	68P
		-30°C	Kj/m ²	6C

Electrical properties /电性能

相对介电率 Relative permittivity	IEC 60250	23°C/100Hz	-	10
		23°C/1MHz	-	3.3
分散因数 Dissipation factor	IEC 60250	23°C/100Hz	10 ⁻⁴	1900
		23°C/1MHz	10 ⁻⁴	1000
电子强度 Electric strength	ISO 60243-1	K20/P50	kV/mm	32
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 ¹³
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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¹⁾sw=black/黑色

²⁾不宜存储在水中

³⁾N=no break /无断裂 C=complete /完全断裂 P=partial break /部分断裂

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