

VESTAMID® L1670

Property 性能试验	Test method 试验方法	Unit 单位	VESTAMID® L1670
Physical, thermal, and mechanical properties and combustibility			
Density 密度	ISO 1183	g/cm ³	1.01
Melting temperature 熔点 DSC 2 nd heating 差示扫描量热法, 第二次加热	ISO 11357	°C	178
Temp.of deflection under load 负载变形温度 method A 1.8 MPa method B 0.45 MPa	ISO 75	°C °C	50 120
Vicat softening temperature 维卡软化点 method A 10N method B 50 N	ISO 306	°C	170 140
linear thermal expansion 线性热膨胀 23-55°C	ISO 11359	10 ⁻⁴ K ⁻¹	1.5
Flammability acc. UL94 阻燃性 1.6 mm 3.2 mm	IEC 60695		HB HB
Water absorption 吸水率 23 °C. saturation* 23°C. 50% rel. humidity.	ISO 62	% %	1.4 0.7
Mold shrinkage 成型收缩 in flow direction 在流动方向 (纵向) in transverse direction 在相反方向 (横向)	ISO 294-4 processing acc ISO 1874-2	% %	0.9 1.1
Tensile test 拉伸测试 Stress at yield 屈服应力 Strain at yield 屈服应变 Strain at break 断裂应力 Strain at break 断裂应变	ISO 527-1/-2	MPa % MPa %	46 6 >50
Tensile modulus 拉伸模量	ISO 527-2/-1A	MPa	1400
CHARPY impact strength 23 °C 简支梁冲击强度 -30 °C	ISO 179/1eU	kJ/m ² kJ/m ²	N N
CHARPY notched impact strength 23 °C 简支梁缺口冲击强度 -30 °C	ISO 179/1eA	kJ/m ² kJ/m ²	4C 5C
Electrical properties			
Relative permittivity 23°C, 100 HZ 相对介电常数 23 °C, 1 MHz	IEC 60250		3.8 2.2
Dissipation factor 23°C, 100 HZ 消耗因素 23 °C, 1 MHz	IEC 60250	10 ⁻⁴ 10 ⁻⁴	450 280

electric strength 绝缘强度	K20/P50	IEC 60243-1	kV/mm	27
Comparative tracking index 比较性漏电指数	CTI	IEC 60112		>600
Test solution A	50 drops value			600
Volume resistivity 体积电阻率		IEC 60093	Ω cm	10^{15}
Electrolytic corrosion effect 电解腐蚀效应		IEC 60426	step	A1

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