

**VESTAMID® E47-S1**

Property 性能试验	Test method 试验方法	Unit 单位	VESTAMID® E47-S1
<b>Physical, thermal, and mechanical properties and combustibility</b>			
Shore hardness D 肖氏硬度	ISO 868		47
Density 密度	ISO 1183	g/cm <sup>3</sup>	1.02
Viscosity number	ISO 307		190
Temp.of deflection under load 负载变形温度			
method A 1.8 MPa	ISO 75 -1	°C	45
method B 0.45 MPa	ISO 75 -2	°C	65
Vicat softening temperature 维卡软化点			
method A 10N			140
method B 50 N	ISO 306	°C	70
linear thermal expansion 线性热膨胀			
23-55°C			
Longitudinal	ISO 11359	10-4 K-1	2.3
transverse		10-4 K-1	2.1
Flammability acc. UL94 阻燃性 1.6 mm	IEC 60695		HB
Water absorption 吸水率 23 °C. saturation*	ISO 62	%	1.0
Mold shrinkage 成型收缩	ISO 294-4		
in flow direction 在流动方向 (纵向)	processing acc	%	0.6-1.0
in transverse direction 在相反方向 (横向)	ISO 1874-2	%	0.9-1.5
Tensile test 拉伸测试	ISO 527-1/-2		
Stress at yield 屈服应力		MPa	-
Strain at yield 屈服应变		%	-
Stress at 50% strain 50%应变下的循环应力		MPa	12
Tensile strength 抗张强度		MPa	23
Strain at break 断裂应变		%	>200
Tensile modulus 拉伸模量	ISO 527-2/-1	MPa	120
Tensile creep modulus 拉伸蠕变模量 1000h	ISO 899-1	MPa	90
CHARPY impact strength 23 °C	ISO 179/1eU	kJ/m <sup>2</sup>	N
简支梁冲击强度 -30 °C		kJ/m <sup>2</sup>	N
CHARPY notched impact 23 °C	ISO 179/1eA	kJ/m <sup>2</sup>	N
strength 简支梁缺口冲击强度 -30 °C		kJ/m <sup>2</sup>	N
<b>Electrical properties</b>			

Relative permittivity 相对介电常数	23°C, 100 HZ 23 °C, 1 MHz	IEC 60250		8.5 4.7
Dissipation factor 消耗因素	23°C, 100 HZ 23 °C, 1 MHz	IEC 60250	10-4 10-4	1200 1300
electric strength 绝缘强度	K20/P50	IEC 60243-1	kV/mm	37
Comparative tracking index 比较性漏电指数 Test solution A	CTI	IEC 60112		600
Volume resistivity 体积电阻率		IEC 60093	Ohm cm	1011
Spec. surface resistance		IEC 60093	Ohm	1013

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