

# VESTAMID DX9301 black (4% graghite)

PA612

性能 Properties With filler and reinforcing material	测试方法 Test method	单位 Unit	数值 Value
预处理之后 After pretreatment			干燥/刚成型 dry/as molded

## Physical, thermal, mechanical properties and flammability /物理性能, 热性能, 机械性能和易燃性

密度 Density	23℃	ISO 1183		g/cm <sup>3</sup>	1.09
熔点 Melting temperature		ISO 11357	Peak temperature 2. heating	℃	220
负载变形温度 Temperature of deflection under load <sup>2)</sup>		ISO 75	Method A 1.8 MPa Method B 0.45 MPa	℃	85 185
维卡软化温度 Vicat softening temperature		ISO 306	Method B 50N	℃	187
线性热膨胀系数/Coefficient of linear thermal expansion		ISO 11359	23-55℃ longitudinal transverse	10 <sup>-4</sup> .k <sup>-1</sup>	1.3 1.1
易燃性 UL94 Flammability acc. UL94		ISO 60695	1.6mm 3.2mm		- -
吸水率 Water absorption		ISO 62	23℃,saturation	%	2.7
湿气吸收率 Moisture absorption		ISO 62	23℃ ,50% r.h.	%	1.0
模型收缩率 Mold shrinkage		Specimen 127*12.7*3.2 mm3 Processing acc DIN EN ISO 1874-2	In flow direction In transverse direction	% %	1.2 1.4
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 % MPa %	- - 65 7
弯曲模量 Tensile modulus		ISO 527-2/1A		MPa	2650
悬臂梁冲击强度 CHARPY impact strength <sup>3)</sup>		ISO 179/1eU	23℃ -30℃	kJ/m <sup>2</sup> kJ/m <sup>2</sup>	115C 110C
悬臂梁缺口冲击强度 CHARPY notched impact strength <sup>3)</sup>		ISO 179/1eA	23℃ -30℃	kJ/m <sup>2</sup> Kj/m <sup>2</sup>	4C 3C

## Electrical properties /电性能

相对介电率 Relative permittivity	IEC 60250	100Hz 1MHz			-
分散因数 Dissipation factor	IEC 60250	100Hz 1MHz		10 <sup>-4</sup> 10 <sup>-4</sup>	-
电子强度 Electric strength	ISO 60243-1	K20/P50		kV/mm	-
相对漏电跟踪指数 Comparative tracking index CTI	IEC 60112	Test solution A 100 drops value			-
体积电阻率 Volume resistivity	IEC 60093			Ohm*cm	-

加工温度 (Moding temperature)

熔体温度 (melt temperature)	230℃-270℃
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<sup>1)</sup>conditioned at 23℃/50% relative humidity to constant weight

<sup>2)</sup>measured as molded; values in parenthesis after conditioning at 180℃/60min

<sup>3)</sup>N=no break, C=complete break encl. hinge break H, P=partial break

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