

PA612 DX9301

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 23°C Density	ISO 1183	g/cm3	1.09
熔点 Melting temperature	ISO 11357	Peak temperature 2. heating	°C 220
负载变形温度 Temperature of defection under load2)	ISO 75	Method A 1.8 MPa Method B 0.45 MPa	°C 85 °C 185
维卡软化温度 Vicat softening temperature	ISO 306	Method B 50N	°C 187
线性热膨胀系数 Coefficient of linear thermal expansion	ISO 11359	23-55°C longitudinal transverse	10 ⁻⁴ .k ⁻¹ 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°C, saturation	% 2.7
湿气吸收率 Moisture absorption	ISO 62	23°C ,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	ISO 527-1/2		
屈服强度/stress at yield			MPa -
屈服拉伸率/Strain at yield			% -
断裂强度/stress at break			MPa 65
断裂拉伸率/strain at break			% 7
弯曲模量Tensile modulus	ISO 527-2/1A		MPa 2650
悬臂梁冲击强度 CHARPY impact strength3)	ISO 179/1eU	23°C -30°C	kJ/m ² 115C kJ/m ² 110C
悬臂梁缺口冲击强度 CHARPY notched impact strength3)	ISO 179/1eA	23°C -30°C	kJ/m ² 4C kJ/m ² 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 ⁻⁴ 10 ⁻⁴ -
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°C-270°C		

1)conditioned at 23°C/50% relative humidity to constant weight

2)measured as molded; values in parenthesis after conditioning at 180°C/60min

3)N=no break, C=complete break encl. hinge break H, P=partial break