

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	23°C ISO 1183		g/cm ³	1.08
熔点 Melting temperature	ISO 3146, ISO 11357	Peak temperature 2. heating	°C	178
负载变形温度 Temperature of deflection under load	ISO 75	Method A 1.8 MPa	°C	50
		Method B 0.45MPa	°C	130
维卡软化温度 Vicat softening temperature	ISO 306	Method A 10N	°C	175
		Method B 50N	°C	140
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⁾	%	1.5
		23°C ,50% rel. humid.	%	0.7
模型收缩率 Mold shrinkage	ISO 294-4 Processing cond ac to ISO 1874-2	In flow direction	%	1.4
		In transverse direction	%	1.45
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	36
			%	6
			MPa	-
			%	>50
弯曲模量 Tensile modulus	ISO 527-1/2		MPa	1400
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	60P
		-30°C	Kj/m ²	12C

Electrical properties /电性能

绝缘电阻 Isolation resistance ⁴⁾	IEC 60167		Ω	10 ⁷
体积电阻率 Volume resistivity	IEC 60093		Ω .cm	10 ⁷

加工温度 (moding temperature)

熔体温度 (melt temperature)	230°C-270°C
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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

⁴⁾符合标准R₀₆ DIN 43582:1983/VDE 0303 part 3

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