

Transparent polyamides /透明尼龙

性能 Properties	测试方法 Test method	单位 Unit	数值 Value
Mechanical properties /机械性能			
Tensile test /拉伸测试 Stress at yield σ_S /屈服强度 σ_S Strain at yield ϵ_S /屈服拉伸率 ϵ_S Nominal strain at break ϵ_B /断裂伸长率 ϵ_B	23°C 50mm/min ISO 527-1/2	MPa % %	
Tensile test /拉伸测试 Tensile strength σ_B /拉伸强度 σ_B Nominal strain at break ϵ_B /断裂伸长率 ϵ_B	23°C 5mm/min ISO 527-1/2	MPa %	220 3.2
Tensile modulus /拉伸模量	23°C ISO 527-1/2	MPa	11000
Tensile creep modulus /拉伸蠕变模量	1h 100-h ISO 899-1	MPa MPa	9600 5200
Flexural test /弯曲测试 Flexural strength σ_{bB} /弯曲强度 σ_{bB} Flexural strength at 3.5% strain $\sigma_{b3.5}$ /弯曲强度(3.5%应变) σ_{b3} Outer fiber strain at maximum stress ϵ_{bB} /最大应力时外力应变 ϵ_{bB} Outer fiber strain at break ϵ_{bR} /断裂时外力应变 ϵ_{bR}	5mm/min ISO 178	MPa MPa % %	342 302 4.3
Flexural modulus /弯曲模量	ISO 178	MPa	12000
CHARPY impact strength /悬臂梁冲击强度	23°C 0°C -30°C ISO 179/1eU	kJ/m ² kJ/m ² kJ/m ²	96C 87C 80C
CHARPY notched impact strength /悬臂梁冲击强度(缺口)	23°C 0°C -30°C ISO 179/1eA	kJ/m ² kJ/m ² kJ/m ²	14C 11C 10C
Shore hardness D /邵氏硬度D	ISO 868		90
Ball indentation hardness H30 /球缺口硬度H30	ISO 2039-1	N/mm ²	262
Physical and Thermal Properties /物理和热性能			
Density /密度	23°C ISO 1183	g/cm ³	1.48
Viscosity number /粘度	ISO 307	cm ³ /g	130
Vicat softening temperature /维卡软化温度 Method A /方法A Method B /方法B	10N 50N ISO 306	°C °C	230
Temperature of deflection under load /荷载变形温度 Method A /方法A Method B /方法B	1.8MPa 0.45MPa ISO 75-1/2	°C °C	230
Linear thermal expansion /热线性伸展 longitudinal $\alpha_{B }$ /纵向 $\alpha_{B }$ transverse α_{\perp} /横向 α_{\perp}	23°C-80°C ISO 11359	10 ⁻⁴ K ⁻¹ 10 ⁻⁴ K ⁻¹	0.22 0.38
Glass transition temperature Tg /玻璃化转变温度	10k/min	°C	93
Melt temperature (DSC) /熔点(DSC)	10k/min	°C	260
Electrical properties /电性能			
Relative permittivity ϵ_r /相对介电率	23°C 50Hz 100Hz 1MHz IEC 60250		6.2
Dissipation factor tan δ /分散因数 δ	23°C 50Hz 100Hz 1MHz IEC 60250		0.025
Electric strength E _d /电强度E _d	K20/P50 IEC 60243-1	kV/mm	27
Comparative tracking index /相对漏电跟踪指数 Test solution A /测试溶液A	CTI 100-drops value IEC 60112		600
Glow wire test /发热电线测试	thickness=1mm IEC 60695-2-1/0-3	°C	
Volume resistivity ρ_v /体积电阻率 ρ_v	IEC 60093	Ohm m	>10 ¹³
Spec. surface resistance ρ_s /表面电阻系数 ρ_s	IEC 60093	Ohm	>10 ¹⁵
Surface resistance R _{OA} /表面电阻R _{OA}	IEC 60093	Ohm	>10 ¹³

N=no break /无断裂 C=complete /完全断裂 n.r.=not reached /没有达到

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