



名称: **PA12**
 牌号: **TP TN956**

产品简介 Product Description	主要应用 Applications
<p>·PA12是一种高纯度透明热塑性聚酰胺，基于脂肪族和环脂单体。是高质量光学镜片应用的专用材料。</p> <p>PA12 is a high purity transparent thermoplastic polyamide based on aliphatic and cycloaliphatic monomers. It is a dedicated material for high quality optical lens applications.</p>	<p>光学:镜片、光学部件、安全眼镜.太阳眼镜、镜架; 包装:无拉伸薄膜、医疗包装、食品接触透明材料、杯体</p> <p>Optics:lenses,optical components,safety glasses,sunglasses Frame; Packaging:cast film, medical packaging, food contact transparent materials,cup body</p>
<p>高透明、高强度、易着色喷漆、易贴膜易强化、耐化学性好，折射率低、热变形更高、超轻比重，抗UV。</p> <p>High transparency、high strength、easy coloring and painting、easy filming and strengthening、good chemical resistance、low refractiveindex、higher heat distortion、ultra-light specific gravity、UV resistance.</p>	<p>·Good mechanical properties balance</p>

性能 Properties	测试标准 Test Method	测试条件 Test Condition	单位 Unit	典型值 Typical Values
物理性能 Physical properties				
密度 Specific Gravity	ISO 1183	23℃	g/cm ³	1
熔指 Melt index	1S011357-1/-3		g/min	2.8
饱和吸水率 water absorption	ISO 1183		%	2
透光率 Transmittance			%	>=93
收缩率 平行 Contraction rate parallel	1S0294-4,2577		%	0.4
垂直 vertical	1S0294-4,2577		%	0.5
机械性能 Mechanical properties				
拉伸强度 Tensile Strength	IS0527-1/-2		MPa	58
拉伸模量 Tensile Modulus	1S0527-1/-2		MPa	1600
简支梁缺口冲击强度 Charpy Notched Impact Strength	ISO179/1eU	23℃	kJ/m ²	25
断裂伸长率 Elongation rate at break	1S0527-1/-2		%	148
弯曲模量 Bending modulus	ISO 178		MPa	1600
弯曲强度 Bending strength	ISO 178		MPa	65
热性能 Thermal properties				
热变形温度 Heat deflection	ISO 75	0.45MPa/1.8Mpa	℃	130/120
其它性能 Other properties				
燃烧等级 Combustion grade	UL94		CLASS	HB