

# Plexiglas® 6N

## 聚甲基丙烯酸甲酯-丙烯酸

### Evonik Industries AG

#### 产品说明

Product Profile:  
PLEXIGLAS® 6N is an amorphous thermoplastic molding compound (PMMA).

Typical properties of PLEXIGLAS® molding compounds are:

- good flow
- high mechanical strength, surface hardness and mar resistance
- high light transmission
- excellent weather resistance
- free colorability due to crystal clarity.

The special properties of PLEXIGLAS® 6N are:

- very good mechanical properties
- high heat deflection temperature
- excellent flow / melt viscosity

Application:  
Particularly suitable for injection molding optical and technical items.

Examples:  
optical waveguides, luminaire covers, automotive lighting, instrument cluster covers, optical lenses, displays, cuvettes, medical applications etc.

Processing:  
PLEXIGLAS® 6N can be processed on injection molding machines with 3-zone general purpose screws for engineering thermoplastics.

Physical Form / Packaging:  
PLEXIGLAS® molding compounds are supplied as pellets of uniform size, packaged in 25kg polyethylene bags or in 500kg boxes with PE lining; other packaging on request.

总体			
性能特点	<ul style="list-style-type: none"> <li>• High Hardness</li> <li>• 高强度</li> </ul>	<ul style="list-style-type: none"> <li>• 良好的着色性</li> <li>• 流动性高</li> </ul>	<ul style="list-style-type: none"> <li>• 耐气候影响性能良好</li> </ul>
用途	<ul style="list-style-type: none"> <li>• Automotive Backlights</li> <li>• Displays</li> <li>• 保护性遮盖物</li> </ul>	<ul style="list-style-type: none"> <li>• 光学应用</li> <li>• 镜头</li> <li>• 汽车领域的应用：</li> </ul>	<ul style="list-style-type: none"> <li>• 医疗器械</li> </ul>
加工方法	<ul style="list-style-type: none"> <li>• 注吹成型</li> </ul>		
多点数据	<ul style="list-style-type: none"> <li>• Creep Modulus vs. Time (ISO 11403-1)</li> <li>• Isochronous Stress vs. Strain (ISO 11403-1)</li> </ul>	<ul style="list-style-type: none"> <li>• Isothermal Stress vs. Strain (ISO 11403-1)</li> <li>• Secant Modulus vs. Strain (ISO 11403-1)</li> </ul>	<ul style="list-style-type: none"> <li>• Shear Modulus vs. Temperature (ISO 11403-1)</li> <li>• Viscosity vs. Shear Rate (ISO 11403-2)</li> </ul>

物理性能	额定值	单位制	测试方法
密度	1.19	g/cm <sup>3</sup>	ISO 1183
溶化体积流率 (MVR) (230°C/3.8 kg)	12.0	cm <sup>3</sup> /10min	ISO 1133
机械性能	额定值	单位制	测试方法
拉伸模量	3200	MPa	ISO 527-2/1
拉伸应力 (断裂)	67.0	MPa	ISO 527-2/5
拉伸应变 (断裂)	3.0	%	ISO 527-2/5
冲击性能	额定值	单位制	测试方法
简支梁缺口冲击强度 (23°C)	20	kJ/m <sup>2</sup>	ISO 179/1eU
热性能	额定值	单位制	测试方法
维卡软化温度	96.0	°C	ISO 306/B50
线形膨胀系数 - 流动 (0 到 50°C)	0.000080	cm/cm/°C	ISO 11359-2
可燃性	额定值	单位制	测试方法
UL 阻燃等级 (1.60 mm)	HB		UL 94
光学性能	额定值	单位制	测试方法
折射率	1.490		ISO 489
透射率 <sup>2</sup>	92.0	%	ISO 13468-2

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补充信息	额定值 单位制	测试方法
Fire Rating	B2	DIN 4102

注射	额定值 单位制
干燥温度	< 85.0 °C
干燥时间	2.0 到 3.0 hr
加工 ( 熔体 ) 温度	220 到 260 °C
模具温度	60.0 到 90.0 °C