

## 定制光学塑料元件

### -常用热塑性塑料的机械性能

| MATERIAL  | PMMA | POLY-STYRENE | POLY-CARBONATE | COP   | POLYESTER | N-BK7 (REFERENCE) |
|---|------|--------------|----------------|-------|-----------|-------------------|
| CoEfficient of Thermal Expansion (CTE) (X 10 <sup>-6</sup> /°C) | 60   | 50           | 68             | 60    | 72        | 7.1               |
| Operating Temperature (°C)                                      | 85   | 75           | 120            | 135   | 125       | >400              |
| % H <sub>2</sub> O Absorption (25 hour immersion)               | 0.3  | 0.1          | 0.2            | <0.01 | 0.15      | -                 |
| Specific Gravity  | 1.18 | 1.05         | 1.25           | 1.02  | 1.22      | 2.51              |