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|---------------------|--|------------------|
| Glass designation : | 7056 GLASS | Code 7056 |
| Color : | White | |
| Glass type : | Hard Crown | |
| Application : | Optical and electronic applications | |

| <u>PHYSICAL PROPERTIES</u> | | | |
|----------------------------|-----------|-----------|-------------------|
| Density : | | 2.29 | g/cm ³ |
| Linear Exp. Coef. : | | See fig 1 | / °C |
| Viscosity : | Soft. Pt | 718 | °C |
| | Ann. Pt | See fig 1 | °C |
| | Strain Pt | 472 | °C |
| <u>REFRACTIVE INDEX</u> | | | |
| Line | | λ (nm) | Value |
| F' | Cadmium | 480.0 | 1.49300 |
| F | Hydrogen | 486.1 | 1.49200 |
| e | Mercury | 546.1 | 1.48900 |
| d | Helium | 587.6 | 1.48640 |
| C' | Cadmium | 643.8 | 1.48550 |
| C | Hydrogen | 656.3 | 1.48500 |
| Abbe Number | ve | | 65.4 |
| | vd | | 65.5 |

| <u>TRANSMISSION PROPERTIES</u> | |
|---|--------------|
| VISIBLE | 380 - 780 nm |
| Luminous transmission factor | 91% |
| <i>10 mm thickness</i> | |
| Colour - Minimum R Value (T400/T650) : | 0.90 |
| <i>Sample 5.5mm thickness</i> | |
| Light absorption or Beta value : Max 1.5%/cm | |
| Beta value = $((1 - r)^2 - T) / ((1 - r)^2 * t)$ | |
| r : $((nd - 1) / (nd + 1))^2$ | |
| t : length of sample in cm | |
| T : average transmission at 450, 507.7, 529.8, 543.7, 550, 555.4, 566.3, 576.9, 587.9, 600.1, 615.2, 639.7, 650nm | |

| <u>COATING & TEMPERING</u> | | |
|--------------------------------|--------------------|-----|
| (See also notes below) | Vacuum coating | YES |
| | Chemical tempering | N/A |
| | Air tempering | N/A |

| CHEMICAL DURABILITY (class) | To water | NF ISO 719 | N/A |
|-----------------------------|------------|------------|-----|
| | To acid | DIN 12-116 | N/A |
| | To alkalis | ISO 695 | N/A |

