

## GLOBAL OPTICS (UK) LTD

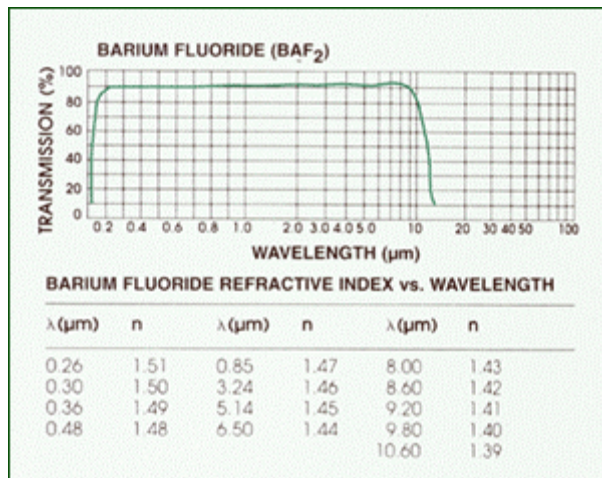
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### BARIUM FLUORIDE - BaF<sub>2</sub>

Used for optical windows, prisms and lenses transmitting from the vacuum ultraviolet into the Infrared. BaF<sub>2</sub> is also a scintillation material that exhibits one of the fastest known decay constants among inorganic materials.

**Typical Applications:** UV, Visible and Infrared imaging systems, scintillators, IR cut-off filters.

|                                     |  |
|-------------------------------------|--|
| Transmission Range                  | 0.15 - 15.0 μ                                |
| Crystal Structure                   | Fluorite                                     |
| Cleavage Plane                      | 111  |
| Colour                              | Colourless                                   |
| Density                             | 4.884 (20°)                                  |
| Melting Point (°)                   | 1280   |
| Reflection Loss                     | 6.0% (4μ) for 2 surfaces                     |
| Solubility index                    | 0.159gm/100gm / 0°C                          |
| Hardness (Knoop)                    | 82.0/500 gm indenter                         |
| Thermal Conductivity (cal/cm sec°C) | 2.8x10 <sup>-2</sup> (13°C)                  |
| Thermal Expansion coefficient (/°C) | 18.1x10 <sup>-6</sup> /°C at -100° to +120°C |



Whilst every effort has been made to verify the data provided, no responsibility can be accepted for its accuracy

