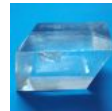
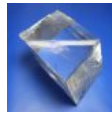




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# Calcite



Calcite is a carbonate mineral and the most stable polymorph of calcium carbonate (CaCO<sub>3</sub>).It's a negative uniaxial crystal and mostly used as visible and near IR polarizers. It has high birefringence,..

### Calcite Birefringent Crystal

Calcite is a carbonate mineral and the most stable polymorph of calcium carbonate (CaCO<sub>3</sub>).It's a negative uniaxial crystal and mostly used as visible and near IR polarizers. It has high birefringence, wide spectral transmission and availability in reasonably sized rhombs.

#### Specifications:

Size:	max.30~45mm
Length:	max.25~35mm
Surface Quality:	20/10
Optical Deviation:	<3 arc min
Optical Axis Orientation:	+/-0.5°
Flatness:	< λ/4 @633nm
Wave Front:	< λ/4 @633nm
Coating:	According to customer request

#### Physical Properties:

Transparency Range	350~2300nm
Partical Shape	Crystalline rhombihedral
Density	2.7g/cm <sup>3</sup>
Thermal Expansion Coefficient	Low susceptibility to moisture
Mohs Hardness	3
Thermal Expansion Coefficient	aa=24.39×10 <sup>-6</sup> /k; ac=5.68×10 <sup>-6</sup> /k
Crystal Class	Negative uniaxial with no=na=nb, ne=nc
Refractive index, birefringence(Δ=ne-no) and walk-off angle at 45°C(ρ)	no=1.6557,ne=1.4852 Δn=-0.1705,ρ=6.20@630nm no=1.6629,ne=1.4885 Δn=-0.1705,ρ=6.20°@1300nm
Sellmeier Equation	no <sup>2</sup> =2.69705+0.0192064/(λ <sup>2</sup> -0.01820)-0.0151624λ <sup>2</sup> ne <sup>2</sup> =2.18438+0.0087309/(λ <sup>2</sup> -0.01018)-0.0024411λ <sup>2</sup>