

MarkeTech Calcium Carbonate, Calcite (CaCO3) Optical Grade Crystal

Category : Ceramic

Material Notes:

Optical grade crystal with no small inclusions, cleavage planes, clouds and mist, point defects or bubbles inside the crystal. A proprietary process is used for cutting, grinding and polishing quality optical surfaces, producing high quality finished components that enable polarizers to be used with very high peak power lasers. Typical products are: rhombohedral shapes, rectangles and rounds, shaped plates, wedges, and cubes. Birefringent. Low susceptibility to moisture. Transparent 350 nm to 2300 nm. Data provided by the supplier, MarkeTech International.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-Calcium-Carbonate-Calcite-CaCO3-Optical-Grade-Crystal.php

Physical Properties	Metric	English	Comments
Density	2.71 g/cc	0.0979 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	3.1	3.1	

Thermal Properties	Metric	English	Comments
CTE, linear	5.68 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.16 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ac
	24.39 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.55 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	aa

Optical Properties	Metric	English	Comments
Refractive Index	1.47744	1.47744	no
	@Wavelength 1.497 nm	@Wavelength 1.497 nm	
	1.5114	1.5114	ne
	@Wavelength 0.312 nm	@Wavelength 0.312 nm	
Transmission, Visible	1.63457	1.63457	no
	@Wavelength 1.497 nm	@Wavelength 1.497 nm	
Transmission, Visible	1.71425	1.71425	ne
	@Wavelength 0.312 nm	@Wavelength 0.312 nm	
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Descriptive Properties	Value	Comments
CaCO3 Content	99.94	

Crystal Structure Descriptive Properties	Crystalline Rhombohedral Value	Comments
Particle Shape	Crystalline Rhombohedral	

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