Quarter Wave Retarders

Overview:

API now offers very high performance polycarbonate based quarter wave retarders.

A maximum temperature of 85°C (low humidity), very low haze, and <u>high viewing angle performance</u> help make these wave retarders superior products.

We offer two versions: Standard extinction and High extinction

The polycarbonate quarter wave has a retardation tolerance of only 6nm across the web, excellent uniformity, and amazing cosmetic cleanliness. We are really excited about this product!

API can laminate the retarders to both acrylic and glass for added durability and improved optical performance.



Data:

APQW92-003-PC-140NM
Standard Extinction quarter wave retarder for contrast enhancement filters
.003″
Polycarbonate
Smooth, Uncoated
Smooth, Uncoated
≥ 90%
<.3%
140nm, +/- 6nm (1/4 wave centered at 560nm)
18" x 36" x .003"
36"
-40°C to +85°C (low humidity, 1000 hours)
60°C @ 90% RH, 1000 hours)
APQW92-002-PC-143NMHE
High Extinction quarter wave retarder for more demanding applications such as 3D filters
.002"
Polycarbonate
Smooth, Uncoated
Smooth, Uncoated
≥ 90%
<.2%
143nm, +/- 6nm (1/4 wave centered at 572nm)
16" x 38" x .002"
38"
-40°C to +85°C (low humidity, 1000 hours)



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