

Quarter Wave Retarders

Overview:

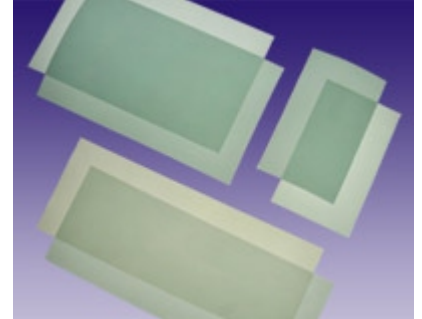
API now offers very high performance polycarbonate based quarter wave retarders.

A maximum temperature of 85°C (low humidity), very low haze, and high viewing angle performance 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:

Product Code	APQW92-003-PC-140NM
Description	Standard Extinction quarter wave retarder for contrast enhancement filters
Thickness	.003"
Substrate	Polycarbonate
Front Finish	Smooth, Uncoated
Back Finish	Smooth, Uncoated
Transmission	≥ 90%
Haze	<.3%
OPD Retardance	140nm, +/- 6nm (1/4 wave centered at 560nm)
Panel Size	18" x 36" x .003"
Fast Axis Direction	36"
Environmental (low humidity)	-40°C to +85°C (low humidity, 1000 hours)
Environmental (high humidity)	60°C @ 90% RH, 1000 hours)
Product Code	APQW92-004-PC-140NMHE
Description	High Extinction quarter wave retarder for more demanding applications such as 3D filters
Thickness	.004"
Substrate	Polycarbonate
Front Finish	Smooth, Uncoated
Back Finish	Smooth, Uncoated
Transmission	≥ 90%
Haze	<.2%
OPD Retardance	140nm, +/- 6nm (1/4 wave centered at 560nm)
Panel Size	18" x 33" x .004"
Fast Axis Direction	33"
Environmental (low humidity)	40°C to +85°C (low humidity, 1000 hours)
Environmental (high humidity)	60°C @ 90% RH, 1000 hours)

