

Coatings

● Coatings

Optical coatings are often used to enhance the performance of optical components. They are also used to reflect, absorb, and selectively reflect or transmit light based on wavelength or the state of polarization.

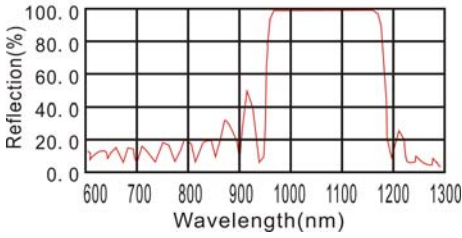
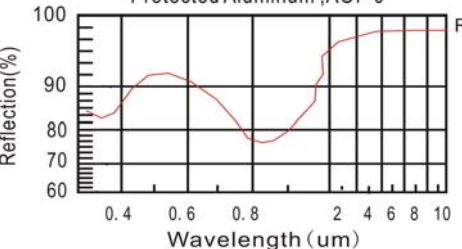
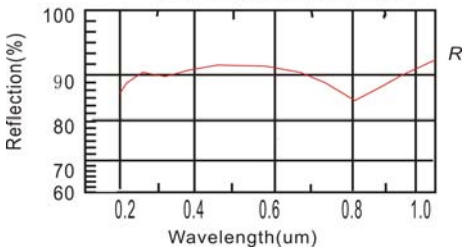
Anti-Reflection (AR) coatings

Spectral Curves	Specifications
<p style="text-align: center;">MgF2 AR, AOI=0°</p>	<p>Single layer MgF2 coating</p> <p>Rave < 1.5% @ 540nm R < 2% @ 400~700nm</p>
<p style="text-align: center;">"V" AR AOI=0°</p>	<p>"V" Type AR Coating</p> <p>0°: R < 0.2% at center wavelength 45°: R < 0.5% at center wavelength</p>
<p style="text-align: center;">Broadband AR AOI=0°</p>	<p>Broadband AR coating</p> <p>0°: R < 0.5% @ 450~650nm 0°: R < 1.0% @ 420~700nm 45°: R < 1.0% @ 450~650nm</p>

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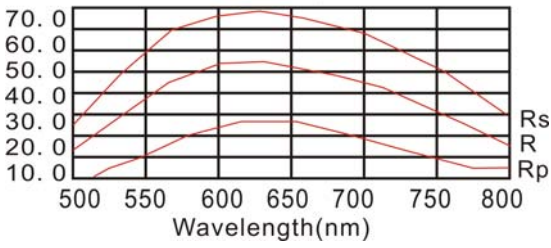
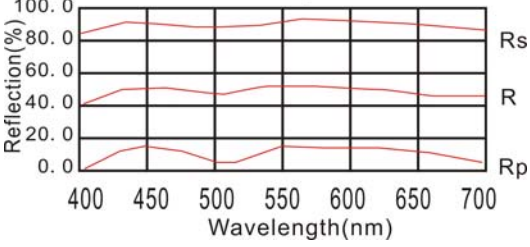
High Reflection (HR) coatings

Spectral Curves	Specifications
<p style="text-align: center;">Dielectric mirror, AOI=0°</p> 	<p>Dielectric mirror coating</p> <p>0°: R<99.8% at center wavelength 45°: R<99.5% at center wavelength (Rs>99.9%, Rp<99.2%)</p>
<p style="text-align: center;">Protected Aluminum, AOI=0°</p> 	<p>Protected Aluminum</p> <p>Ravg>87% @400~1200nm</p>
<p style="text-align: center;">UV Enhanced Aluminum, AOI=0°</p> 	<p>UV Enhanced Aluminum</p> <p>R>80% @200nm</p>

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Partial Reflection (PR) coatings

Spectral Curves	Specifications
<p style="text-align: center;">Narrowband PR, AOI=45°</p> 	<p>Narrowband partial reflective</p> <p>R= 50.0%±2.0% @632.8nm</p>
<p style="text-align: center;">Broadband PR, AOI=45°</p> 	<p>Broadband partial reflective</p> <p>R=50%±5.0% @450-700nm</p>