LASER SCANNER FILTER

PRODUCT INFORMATION

PHILLIPS-SAFETY.COM

PHILLIPS SAFETY
PRODUCTS INC.

The AR Coat Filter is designed to maximize the transmission of 630 – 670nm lasers. Scratch-resistant, anti-reflection, and anti-smudge coatings are available.

MAXIMUM AVAILABLE SIZE – With Anti-Reflection Coating 290mm x 360mm. Without Anti-Reflection Coating 400mm x 550mm.

THICKNESS – 0.5, 0.8, 1.0. 1.5, 2.0, 2.5, 3.0, 4.0 and 5.0mm. Please contact us if you require other thickness.

MACHINING / PRINTING – Available to customer specification.

COLORS – Available in clear and many colors.

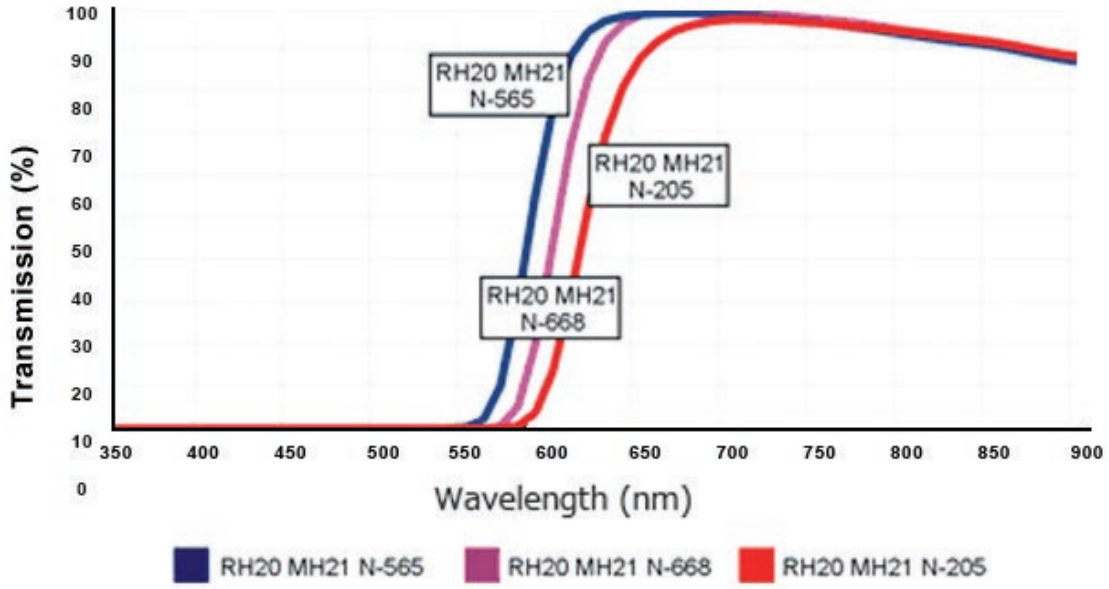
SPECIFICATION

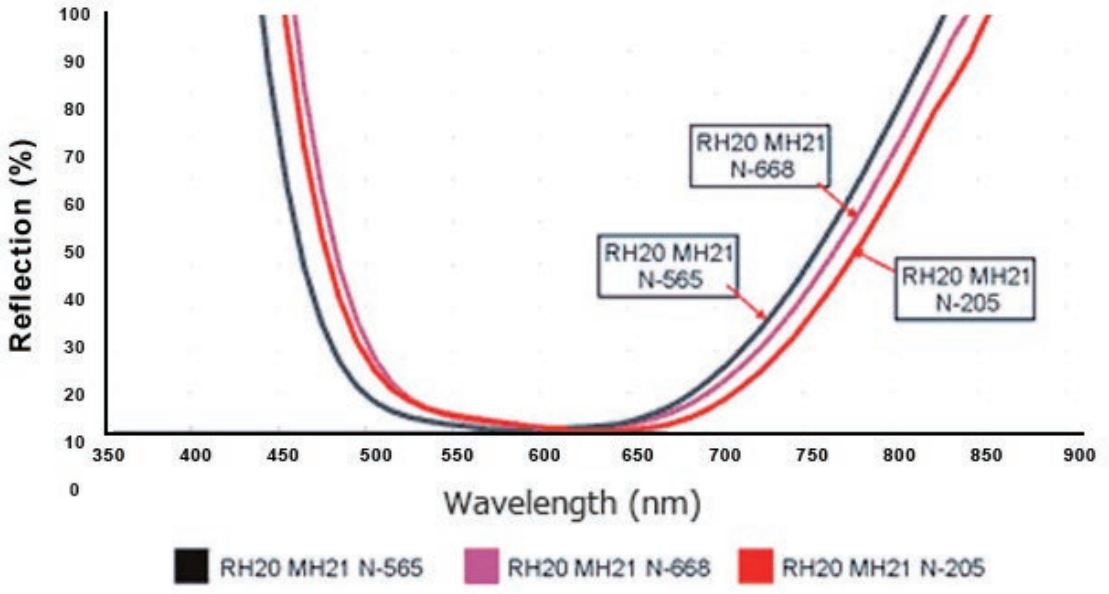
Excellent transmission

Excellent optical characteristics

Excellent surface hardness

Excellent smudge resistance


Transmission (%)
100
90
80
70
60
50
40
30
20
10
0
350
400
450
500
550
600
650
700
750
800
850
900
Wavelength (nm)
RH20 MH21 N-565
RH20 MH21 N-205
RH20 MH21 N-668
RH20 MH21 N-565
RH20 MH21 N-668
RH20 MH21 N-205


Reflection (%)
100
90
80
70
60
50
40
30
20
10
0
350
400
450
500
550
600
650
700
750
800
850
900
Wavelength (nm)
RH20 MH21 N-668
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PHYSICAL PROPERTIES			
PROPERTY	**METHOD**	**UNIT**	**Value**
Specific Gravity	ASTM D-792		1.19
Elongation	ASTM D-638	%	5
Flexural Rupture Strength	ASTM D-790	kg/cm2	800
Heat Distortion Temperature	ASTM D-648	°C	110
Maximum recommended continuous temperature	2	°C	80
Available with higher temperature ratings on request, 90-95°C			
Coefficient of Thermal Expansion	ASTM D-696	cm/cm/°C	7×10^{-5}
Heat Resistance	80°C x 100hr		No Change
Cold Resistance	-40°C x 100hr		No Change
Humidity Resistance	40°C x 90% x 100hr		No Change
Thermal Cycle	-40°C <> 80°C (10 cycles)		No Change
Pencil Hardness			6H - 8H
Shed Water (Touch Angle)			114°
CHEMICAL			
Sodium Carbonate			Dissolved
Soap Aqua Solution			No Change
Sulfuric Acid			Dissolved
Isopropyl Alcohol			No Change
Water			No Change

* Value provided cannot be guaranteed in your application due to circumstances beyond our control.

CONTACT

Should you need any further information,
please do not hesitate to contact us.

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