

SANDS' Color Shift Pigments

SANDS' Color Shift pigments are thin (5 μ m) highly-transparent platelets of a purely organic polymer network with helical, liquid crystalline structure. This helical structure causes each platelet to behave like a small, selective mirror. Light falling on the platelets is split into two components: most is transmitted; however, a small fraction is reflected. The wavelength of reflected light changes continuously, a phenomenon known as color transition.

SANDS' Color Shift pigment is available in the following five color transition pairs and associated platelet sizes:

Jade: Color transition from deep gold to dark green

HJX1810	Jade Extra Small	d ₅₀ 18 μ m
HJS2410	Jade Small	d ₅₀ 25 μ m
HJN3510	Jade Normal	d ₅₀ 34 μ m
HJL9510	Jade Extra Large	d ₅₀ 180 μ m

Maple: Color transition from copper-red to forest green

HMX1810	Maple Extra Small	d ₅₀ 18 μ m
HMS2410	Maple Small	d ₅₀ 25 μ m
HMN3510	Maple Normal	d ₅₀ 34 μ m
HMB6510	Maple Large	d ₅₀ 65 μ m
HML9510	Maple Extra Large	d ₅₀ 180 μ m

Sapphire: Color transition from royal blue to ultraviolet

HSX1810	Sapphire Extra Small	d ₅₀ 18 μ m
HSS2410	Sapphire Small	d ₅₀ 25 μ m
HSN3510	Sapphire Normal	d ₅₀ 34 μ m
HSL9510	Sapphire Extra Large	d ₅₀ 180 μ m

Scarabeus: Color transition from emerald green to electric blue

HCX1810	Scarabeus Extra Small	d ₅₀ 18 μ m
HCS2410	Scarabeus Small	d ₅₀ 25 μ m
HCN3510	Scarabeus Normal	d ₅₀ 34 μ m
HCL9510	Scarabeus Extra Large	d ₅₀ 180 μ m

Aquarius: Color transition from turquoise to blue

HAX1810	Aquarius Extra Small	d ₅₀ 18 μ m
HAS2410	Aquarius Small	d ₅₀ 25 μ m
HAN3510	Aquarius Normal	d ₅₀ 34 μ m
HAL9510	Aquarius Extra Large	d ₅₀ 180 μ m

Titanium: Color transition from grey to blue-green

HAX1810	Aquarius Extra Small	d ₅₀ 18 μ m
HAS2410	Aquarius Small	d ₅₀ 25 μ m
HAN3510	Aquarius Normal	d ₅₀ 34 μ m