LUSHADE®

BLACK

Ultra-Low Reflectance Structural Black Pigment

- ✓ LUSHADE® BLACK is a bismuth sulfide black pigment with a sea urchin-like structure synthesized by our proprietary technology.
- ✓ It absorbs more than 99.0% of visible light due to the sea urchin-like structure.
- ✓ You can easily obtain high blackness without a strong dispersion process like carbon black.
- ✓ This product is a pigment dispersion in propylene glycol monomethyl ether （PGME) suitable for a wide range of inks and both water-based and solvent-based coatings.
- ✓ Potential uses include optical lens edge coatings, internal low-reflection coatings for camera modules, and IR-reflective black coatings for infrared-based devices such as LiDAR, as well as for reducing surface temperature rise.

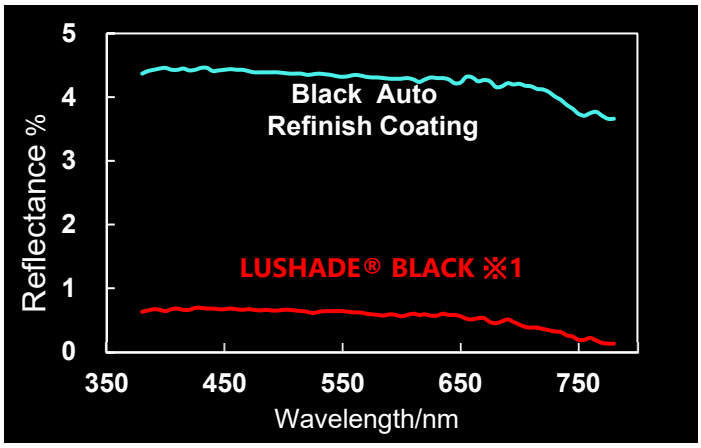
Sample	Gloss	Color (SCI/D65)			Reflectance /%
	60°	L*	a*	b*	550 nm
LUSHADE® BLACK ※1	0.0	5.59	-0.4	-0.8	0.6
Black Auto Refinish Coating	91.4	24.8	-0.1	-0.5	4.3

※1 LUSHADE® BLACK formulated as a coating

Visible Light Reflectance Comparison



Reflectance Spectrum of the Coating Film



ISK Local Insight, Global Impact

ISHIHARA SANGYO KAISHA, LTD.

Iidabashi Grand Bloom., 10-2 Fujimi 2-chome,Chiyoda-ku,Tokyo 102-0071, Japan

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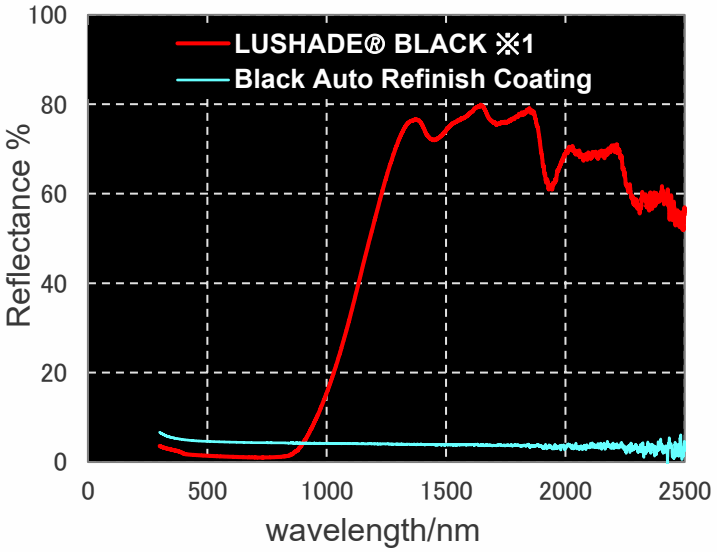
LUSHADE®

BLACK

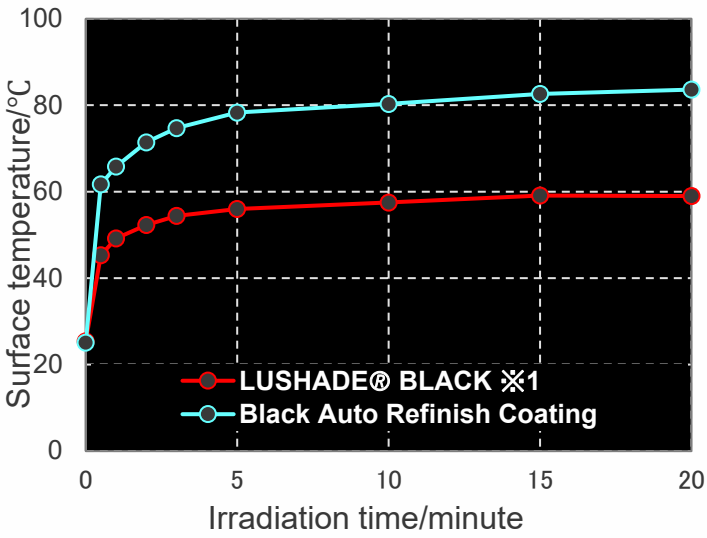
Ultra-Low Reflectance Structural Black Pigment

- ✓ LUSHADE® BLACK absorbs more than 99.0% of visible light and exhibits high reflectance in the infrared region.
- ✓ Thanks to its high infrared reflectance, the pigment helps suppress surface temperature rise and is also expected to find applications in LiDAR technologies that utilize infrared reflection.

Reflectance Spectrum of the Coating Film



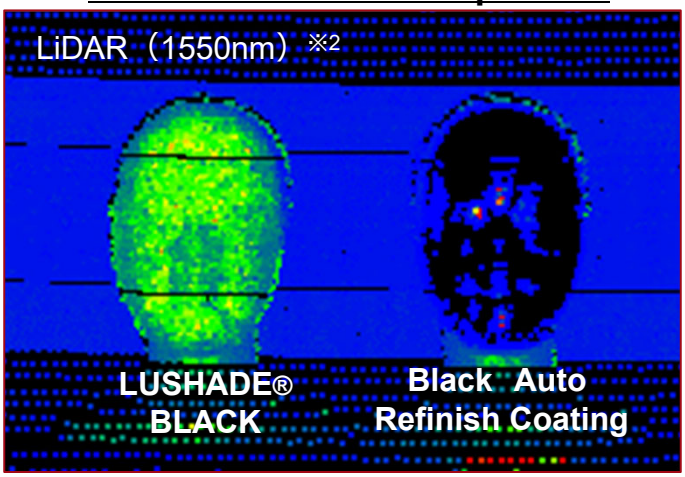
Temperature Change of Coated Film Under Infrared Lamp



Visible Light Appearance



LiDAR Detection Comparison



※1 LUSHADE® BLACK formulated as a coating

※2 Photographed using the 1550nm LiDAR device Falcon (Innovusion Inc.)

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