A new light-diffusing material for LED lighting

VEGACHEM

A new light-diffusing material for LED lighting jointly developed by LG Chem and HEPHAS

The crystallization of high performance nano-plastic technology by nano-science

Material maker: LG Chem  Material Supplier: HEPHAS
It will reproduce the colors expressed by **LEDs** as they are.

VEGACHEM can express colors very precisely and with high light transmittance, it can reduce LEDs in comparison with existing acryl-like materials.

VEGACHEM has excellent ability in the process of injection, extrusion and molding. When applied to LED lightings, it can not only express a full range of colors (approximately 16 million) by mixing RGB colors (Red, Green, Blue, the 3 primary colors) but also reduce LEDs in comparison with existing acryl-like materials. Moreover, it increases the light diffusion by forming minute unevenness on the surface of its sheets, so it is the best material for displays, lighting fixture covers, signboards and other LED lighting applications.
It makes all lighting’s light into the most natural color.

VEGACHEM, as a crystallization of high performance nano-plastic technology by nano-science, expresses the most natural color by preventing dazzling.

VEGACHEM, as it spreads light equally due to light diffusing agents of nano elements, is superior to other products in light diffusion. It has excellent preventive effect against dazzling through the diffusion process of light, especially when light passes through nano elements. Moreover, it increases the light diffusion by forming minute unevenness on the surface of its sheets, so it is the best material for displays, lighting fixture covers, signboards and other LED lighting applications.
When applied to LEDs, VEGACHEM will make them the best light source because it has excellent ability in the process of injection, extrusion and molding and, in light diffusion.

01. Excellent in light diffusion as well as light transmittance
02. Superior in preventing eyes from being dazzled
03. Higher fidelity to millions of detailed RGB-mixed colors
04. Higher impact strength due to its highly cross-linked polymers
05. Easy workable properties like easy cutting and well gluing
06. Easy vacuum forming, extrusion and injection molding
It has excellent preventive effect against dazzling through the diffusion process of light when light passes through nano elements.

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Application to diverse light source by adapting lighting

- General lighting fixtures
- Desk lamps & home lighting fixtures
- Applied lighting products
- Display & Interior
- Sign & POP
We will return your favor with better product through continuous R&D

01. We are aiming for LED lighting & lighting material solution company.
02. We have competitiveness in lighting material solutions,
03. We concentrate our efforts on the new technology in future lighting materials to meet customers’ needs,
04. We will help customers’ success by developing and building the material solution applied to LED and lighting markets around the world.
05. We will develop the most competitive solution products for LED lighting and general lighting material through accumulated technology of LG Chem and wide applied technology of HEPHAS in lighting material field.