SUNSPACERS™ 04.X

DESCRIPTION

SUNSPACERS™ 04.X are finely divided, optically clear, solid fused amorphous silica micronized powders specially engineered for paints, liquid and powder coatings, inks, adhesives, thermoplastics, and composites. These micronized powders increase corrosion resistance, reduce shrinkage, improve adhesion, and enhance surface qualities including abrasion, mar and scratch resistance.

The dielectric properties and very high electrical receptivity of these materials over a wide range of temperatures, together with their low thermal conductivity, allow their use as an electrical and thermal insulating material in a range of environments. SUNSPACERS™ 04.X are chemically stable in a vast range of resins and pH.

LIGHT TRANSMISSION:

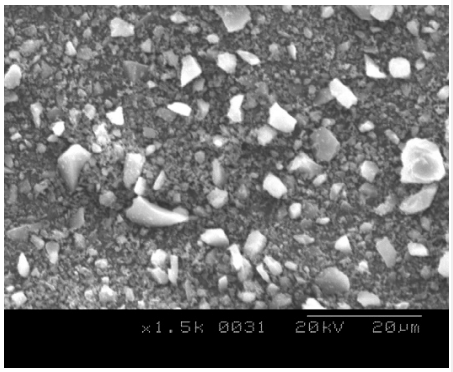
The SUNSPACERS™ 04.X transmit and scatter more than 85% of UV light having a wavelength of 200 nanometers and transmit and scatter more than 95% of UV light having a wavelength of greater than 300 nanometers. These micronized powders allow pigmented and/or thick, clear coatings to be readily cured with ultraviolet radiation.

SIZING & USE:

SUNSPACERS™ 04.X have a median particle size of approximately 3-4 microns, with a particle size range of 0.5 microns to 13 microns. Recommended dosages range from 3 to 50% by total weight of formulation. Due to their low surface area, the SUNSPACERS™ 04.X are easily dispersed.

TYPICAL PARTICLE SIZE ANALYSIS*:

Median Diameter Approx. 3-4.0 Microns



Microns	% Passing
22	100
11	99
5.5	72
2.75	31
1.375	9
0.50	0

Shape: Solid, Angular to Sub-Rounded Particles

PHYSICAL & CHEMICAL PROPERTIES*:

Specific Gravity	2.2
Index of Refraction	1.458(n_D)
Softening Temperature	>1000°C
Strain Point	>600°C
Coefficient of Thermal Expansion	0.48 x 10^{-6}/K
DC Resistivity	1 x 10^{8}
Hardness (Mohs) Scale	> 7.0
BET Surface Area (sq.m/g)	2.7
Oil Absorption	<10
pH	5-6
Structure/Amorphous SiO2	>99%
Crushing Strength	>60,000 psi

***Copies of actual COA's listing actual measured values of data shown above are available upon request.**

See reverse side for additional information

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