



## Polymethylsilsesquioxane LR-610

### Description:

LR-610 is Polymethylsilsesquioxane (spherical silicone resin) micropowder, also known as silicone resin microsphere, which is produced by hydrolysis and polymerization with organosiloxane as raw material. It has the unique properties of silicone materials such as excellent lubricity, light diffusion, hydrophobicity, heat and cold resistance. Compared with other organic polymer microspheres, it has superior heat resistance, does not undergo thermal melting below 400°C, and can maintain a perfect spherical shape. Spherical silicone resin powder is insoluble in organic solvents such as alcohols, esters, ketones, and petroleum fractions, and will not swell in the above solvents.

Siloxane chain link  $(\text{RSiO}_3/2)_n$ , this product is a silicone resin powder with three-dimensional network structure, excellent dispersion and heat resistance. There are types of surface hydrophobic treatment.

CAS NO: 68554-70-1

### Typical Technical Properties:

Item	LR-610-1	LR-610-2	LR-610-3	LR-610-4	LR-610-5
Overview	Hydrophobic type of 610-2				
Appearance	White spherical powder				
Average Particle size	3~6um	3~6um	0.5-1um	1.5-2um	1-1.5um
Particle Size distribution	1-15um	1-10um	0.3-1.2um	1-3um	0.8-2um
Active Ingredient/Solid Content	≥99%	≥99%	≥99%	≥99%	≥99%
Specific Gravity(25℃)	0.98	0.98	1.3	1.3	1.3
Suggested Dosage	PS resin	0.5-1.0%	0.5-1.0%	0.5-1.0%	0.5-1.0%
	PC resin	0.25-0.75%	0.25-0.75%	0.25-0.75%	0.25-0.75%
	Coating glue	0.2-1.0%	0.2-1.0%	-	-
	Makeup	0.5-5%	0.5-5%	-	-

# Technical Data Sheet



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## Applications:

1. LED lampshade industry: As a light diffusing agent for LED light diffusing plastics, it has heat resistance, high haze and high light transmittance;
2. Cosmetics industry: smooth feel agent, filler;
3. Synthetic resin and rubber system: Added to epoxy resin, acrylic resin, polyester resin, ABS synthetic resin, rubber and other systems to give the surface of plastic products with wear resistance, scratch resistance and a smooth feel;
4. Coatings and paints: imparting dispersibility to coatings, inks, varnishes, etc., imparting a smooth feel and matting to the coating film;
5. Other applications: improving the dispersion, fluidity, anti-agglomeration and caking of pigments and ceramic powders.

## Package & Storage:

In carton packing, the net weight is 20kg per carton. And in 50kg bag. Please wear a dust mask before use; add it to the product as the original product or as an emulsion.

Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep in unopened containers, shelf life is 24 months from the date of production. It is shipped as non-hazardous substance. Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

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