POWSIL™-59150

Silicone Softener

Introduction

POWSIL-59150 is a revolutionary & linear copolymer textile softener.

POWSIL-59150 can be used extensively in textile finishing which when applied to synthetics avoiding thermal migration, oiling/greasy feel & color change, particularly on polyester or its blends. It is effective at very low concentrations in the finishing bath and is stable under most processing conditions.

POWSIL-59150 is a textile enhancer which is based on copolymer (AB)nA technology which delivers a natural silky handle. It is very stable in the ordinary textile finish process without oil-spots on fabric.

Benefits

- ☐ Linear block copolymer architecture;
- ☐ Emulsifiers free, no color migration.
- ☐ Self-dispersion; Readily diluted to any grade without additional emulsifies;
- ☐ Effective at 2-5g/l in the bath; High level of natural softness to synthetics and their blends with natural fibers;
- ☐ Polymer with High MW, good durability and resistance;
- ☐ Hindered amine functionality. Hence less or no yellowing;
- ☐ Excellent stability;
- ☐ May be co-applied with crease (durable press) resist resins, their catalysts and optionally OBA's.
- ☐ Excellent fiber elasticity and shape recovery;
- ☐ Re-dyeable & over dyeable.

Typical Physical Properties

Property	Value
Physical Form	Liquid
Appearance	Colorless to yellowish viscous liquid
pH value(1% aqueous solution)	4.0-6.0
Solid Contents (%)	28.0-30.0
Flash Point (°C)	>100
Density(25°C)	0.98-1.08
Ionic Character	Cationic / nonionic

SINOPCC GROUP

POWSIL™-59150

Silicone Softener

Viscosity (25°C)	<5000

Application

POWSIL-59150 is readily diluted with water and no additional emulsifying process is required. It can be directly applied in textile finish process. POWSIL-59150 can be used as received or pre-diluted with water before applying. The desirable usages are dependent on the required softness of the fabric and yarn after dyeing and rinsing.

1. Pad-dry-cure process

Dosage:	2-10 g/L for light fabric or 10-20 g/L for heavy fabric
pH:	5.0-7.0
Temp.:	Ambient temperature
Dry/Cure:	120-170 °C for 1-3 min

2. Exhaustion process

Dosage:	0.2-1.0%(o.w.f) on light fabric & 1.0-2.0% on heavy fabric
Liquor ratio:	1/10-1/20
pH:	5.0-7.0
Temp.:	Ambient temperature
Time:	10-30 min
Drying:	100-170 ºC for 1-3 min

3. Garment washing process

Dosage:	1.0-3.0% on the weight of garment
Temp.:	Ambient temperature
Duratio:	30-60 min
Drying:	100-130 ºC for 3-5 min

Stripping :

POWSIL-59150 can be stripped off fabric. The stripping formulation is as follows:

NaOH:	5 g/L
LABS(30%):	2-5%

Add water and NaOH onto fabric tank and then heat to 100°C for 60 min. Then rinse fabric with acidic water and water.

Packing and Storage

To ensure that the product quality is maintained, the container should be tightly sealed

SINOPCC GROUP

when not in use. It should be stored at normal room temperature, preventing prolonged exposure to extreme heat and cold conditions, which may cause product separation. POWSIL-59150 tends to be sediment on bottom during storage period. If the product is separated, stir the contents to homogeneous. If the product is frozen, thaw it at warm condition and stir after thawed.

POWSIL-59150 is packaged in net weight 120Kg plastic drum. POWSIL-59150 has a shelf life of 12 months under room temperature and hermetic condition without exposure to sunlight.

Notes

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability. We disclaim liability for any incidental or consequential damages.

Please send all technical questions concerning quality and product safety to: support@SiSiB.com.