TECHNICAL DATA SHEET · TDS-CPE-EN

Chlorinated Polyethylene (CPE)

Impact modifier for rigid PVC — six grades across 25, 35 and 40 % chlorine.

CAS No. 63231-66-3 | White uniform powder | Tested per ISO standards

GRADE RANGE
6 Grades
135A · 7035 · 3135
135C · 2500T · 140C

Version V1.0 · Effective 2026-10-26

CHEMICAL NAME	CAS NO.	APPEARANCE	CHLORINE RANGE	DOCUMENT VERSION
Chlorinated Polyethylene	63231-66-3	White uniform powder	25 – 40 wt%	V1.0

01 TECHNICAL SPECIFICATIONS

GRADE	CHLORINE CONTENT WT%	HEAT OF FUSION J/G	SHORE A HARDNESS	TENSILE STRENGTH MPA	ELONGATION %
CPE 135A	35 ± 1.0	≤ 2.0	≤ 65	≥ 8.0	≥ 700
CPE 7035	35 ± 1.0	≤ 2.0	≤ 65	≥ 8.0	≥ 700
CPE 3135	35 ± 1.0	≤ 2.0	≤ 65	≥ 8.0	≥ 700
CPE 135C	35 ± 1.0	≤ 5.0	≤ 65	≥ 6.0	≥ 600
CPE 2500T	25 ± 1.0	≤ 5.0	≤ 65	≥ 8.0	≥ 700
CPE 140C	40 ± 1.0	≤ 5.0	≤ 65	≥ 8.0	≥ 500

VOLATILE MATTER	ASH CONTENT	SIEVE RESIDUE	APPARENT DENSITY
≤ 0.50	≤ 0.10	≤ 2.0	0.40–0.60
wt% · ISO 1269 · typ. 0.30	wt% · ISO 3451-1 · typ. 0.05	% on 35 mesh · ISO 6145 · typ. 0.8	g/cm³ · ISO 60 · typ. 0.48

Limits above are guaranteed; each grade's TDS governs release. Strip values are common to all grades, typical of CPE 135A. Methods: ISO 1158 · DSC · ISO 868 · ISO 527-2.

02 KEY FEATURES & ADVANTAGES

Even chlorine distribution
Uniform chlorine placement: higher whiteness, better flexibility, consistent fusion batch to batch.

Closed-loop by-product
HCl from the reaction is recovered and reused, not discharged as a waste stream.

Broad compatibility
Blends with PVC, PE, PP, PS, ABS and PU, plus NBR, CSM and EPDM.

Weather, oil and chemical resistance
Saturated structure holds under UV, ozone, heat and oil; flexible to −30 °C with no plasticiser migration.

03 APPLICATIONS & RECOMMENDED DOSAGE

TYPICAL APPLICATIONS

- **Pipes & fittings** — water supply, drainage, conduit
- **Profiles & boards** — window and door, cladding, WPC
- **Foam sheet, film and calendered sheet**
- **Wire & cable compounds** — sheathing and insulation
- **WPC decking**, fencing and injection-moulded fittings
- Seal strips; extrusion of rigid and semi-rigid vinyl

STARTING DOSAGE

PER 100 KG PVC
8.0 – 12.0 kg
Final loading follows your impact target and formulation — we size it with you, not from a table.

25 % Cl — flexibility, low-temp toughness	**2500T**
35 % Cl — general pipe, profile, board	**135A / 7035 / 3135 / 135C**
40 % Cl — flame retardancy, oil resistance	**140C**

04 HANDLING, STORAGE, PACKAGING & COMPLIANCE

HANDLING & STORAGE

- **Processing:** add to the high-speed mixer with PVC resin and other additives; normal PVC processing window applies.
- **Storage:** cool, dry and ventilated; keep bags sealed, away from sunlight and heat.
- **Shelf life:** two years unopened; usable after re-inspection.

PACKAGING

- **Standard:** 25 kg PP valve bag with PE liner.
- **Bulk:** super sack available on request.
- Reseal partly used bags to avoid moisture pickup.

EU REACH Compliant
Not listed on the SVHC Candidate List.

RoHS 2.0 Compliant
All restricted substances below limit requirements.

Heavy-Metal Free
Suitable for food-contact and toy-grade PVC, subject to end-product verification.

For complete safety information refer to the corresponding Safety Data Sheet (SDS).

FINEADD
Weifang Fine New Material Co., Ltd.
POLYMER ADDITIVES · IMPACT MODIFIERS
www.fine-add.com | info@fine-additive.com | +86 186 6060 2416

The data contained in this document are typical values obtained under standard laboratory conditions and are given for reference only. Actual performance depends on the customer's specific formulation, processing conditions and application environment. The customer shall verify the suitability of the product through independent tests. FINE-ADD reserves the right to update this document without prior notice.