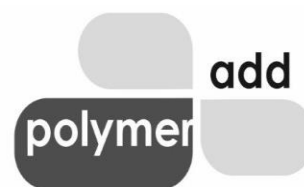


# Polymer Add (Thailand) Co.,Ltd.

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Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



CC-100	TECHNICAL DATA SHEET
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Chemical Name	CALCIUM CARBONATE
Grade Name	BS-144
CAS No.	471-34-1
HS Code	28365000
EINECS No.	207-439-9
Molecular Formula	CaCO <sub>3</sub>
Molecular Weight	100.09 g/mol
Synonyms	Carbonic Acid Calcium Salt E170 Ground Calcium Carbonate (GCC) Precipitated Calcium Carbonate (PCC)

TEST	SPECIFICATION	METHOD
Appearance	Fine white powder	Visual
Purity (on dry basis), %	≥ 98.0%	Titration
Melting Range (°C)	> 825 °C (decomposes)	Thermogravimetry
Volatiles (Moisture), %	≤ 0.5%	Thermogravimetry
Water Solubility, %	< 0.01%	Visual / Gravimetric
pH (10% suspension)	8.0 – 9.5	ISO 787-9
Oil Absorption, g/100g	18–25	ISO 787-5
D50 Particle Size (µm)	2 – 5 (adjustable)	Laser Diffraction (Wet method)
D90 Particle Size (µm)	< 10	Laser Diffraction (Wet method)
Whiteness (Hunter L)	≥ 95	Spectrophotometer (CIE)

Heavy Metals (EU Regulation 10/2011 (content limits in additives) Plastics (Food-Grade / Repeated Use)		
Element	Limit (Typical or Required)	Test Method
Lead (Pb)	≤ 10 ppm	ICP, AAS, XRF, UV-Vis
Mercury (Hg)	≤ 1 ppm	ICP, AAS, CV-AAS
Cadmium (Cd)	≤ 1 ppm	ICP, AAS
Arsenic (As)	≤ 1–3 ppm (typical)	ICP, AAS
Chromium (VI)	ND / ≤ 0.1 ppm	UV-Vis (after extraction)
Chromium (III)	Report only (non-regulated)	ICP, AAS

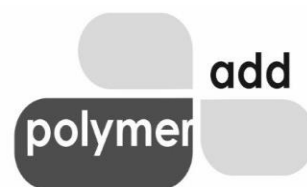
Colour impacting impurities		
Element	Target Range / Threshold	Test Method
Iron (Fe)	≤ 200 ppm (for high whiteness)	ICP, AAS, XRF, UV-Vis
Manganese (Mn)	≤ 50 ppm	ICP, AAS, XRF

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Chromium (Cr total)	≤ 50 ppm	ICP, AAS
Copper (Cu)	≤ 30 ppm	ICP, AAS
Nickel (Ni)	≤ 30 ppm	ICP, AAS
Cobalt (Co)	≤ 10 ppm	ICP, AAS
Vanadium (V)	≤ 10 ppm	ICP, AAS

Product performance impacting impurities		
Ion/Element	Typical Limit	Test Method
Chloride (Cl <sup>-</sup> )	≤ 0.1%	ICP, AAS, Ion Chromatography
Sodium (Na)	≤ 200 ppm	ICP, AAS
Potassium (K)	≤ 100 ppm	ICP, AAS

## Disclaimer:

This product is manufactured in accordance with general industrial quality standards. While typical batches comply with EU 10/2011 heavy metal limits for additives and are monitored for key colour-impacting impurities, these parameters are not routinely tested and are not included in standard Certificates of Analysis unless specifically requested at time of order. Customers requiring guaranteed compliance for food-contact or colour-critical applications should request analytical certification prior to dispatch.

## USES / APPLICATION

Industry	Commercial Application / Uses (Micronized Grade)
Plastics	High-performance filler in masterbatches, films, injection-molded PP/PE/PVC for enhanced surface finish, opacity, and rigidity
Rubber	Used in soft rubber products (e.g., footwear soles, gaskets) for improved tensile strength, smoothness, and dispersion
Paints & Coatings	Extender pigment in architectural and industrial coatings for high brightness, controlled gloss, and improved rheology
Paper (Coating Grade)	Used as a topcoat pigment for high-quality printing and ink absorption, improves brightness and print sharpness
Adhesives & Sealants	Rheology control and anti-sag agent in high-viscosity adhesive systems (PU, epoxy); improves mechanical stability
Inks	Pigment extender and anti-settling agent in gravure and offset inks for smooth printability and colour stability

## US FDA 21 CFR LISTING

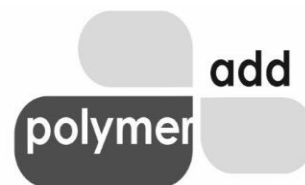
CFR Section	Title / Description
184.1191	Direct Food Substance Affirmed as GRAS
73.70	Colour Additive
175.300	Resinous and Polymeric Coatings
177.1200	Cellophane
177.2600	Rubber Articles
178.3297	Colorants for Polymers

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## Product Disclaimer :

*This statement supersedes any Buyers documents. Seller makes no representation, Warranty, Express or Implied, Including of Merchantability of Fitness for a particular use, or purpose. No statement herein is to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence breach of warranty, strict liability, and tort or contract rising in connection with product(s). Buyers sole remedy and Sellers sole Liability for any claims shall be buyers purchase price. Data and results are based on controlled or lab work and must be confirmed by the buyer by testing for its indented conditions of use. This product is not tested for, and is therefore not recommended for, use for which prolonged contact with mucous membranes, abraded skin, or blood is intended, or for use for which implantation within human body is intended.*

Month of Creation	May 2025
Month of Review	May 2027



Aditya Jogdeo  
Technical Director