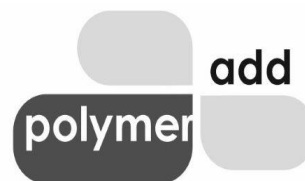


Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

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



TECHNICAL DATA SHEET

SATURATED POLYESTER RESIN

(OUTDOOR / ISO-NPG GRADE) – Micronized Powder

PRODUCT CLASSIFICATION

Parameter	Description
Chemical Name	Saturated Polyester Resin (Iso-NPG Grade)
Grade Name	Saturated Polyester Resin (Outdoor / Iso-NPG Grade) – Micronized Powder
CAS No.	25214-38-4
HS Code	3907.99.00
EINECS / EC No.	Polymer exempt / Listed
Chemical Structure	Isophthalic Acid / Neopentyl Glycol (Iso-NPG) Based Saturated Polyester
Synonyms	Micronized Saturated Polyester Resin, Iso-NPG Polyester Powder, Weather-Resistant Polyester Micronized Powder

PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	Fine Off-White to White Micronized Powder	Visual
Odor	Odorless to Mild, non-residual odor	Sensory
Glass Transition Temp. (T_g)	55 – 65 °C	DSC (ASTM D3418)
Curing Range	160 – 200 °C	DSC / Dynamic Mechanical
Acid Value	20 – 35 mg KOH/g	ASTM D1639
Density @ 25°C	1.18 – 1.25 g/cm ³	ASTM D792
Moisture Content	≤ 0.5%	Oven drying (105°C) / Karl Fischer
Laser Diffraction	Particle Size (D_{50})	< 20 μm (Fine Micronized Grade)
Laser Diffraction	Particle Size (D_{90})	< 45 μm

HEAVY METALS (EU REG. 10/2011 - CONTENT LIMITS IN ADDITIVES)

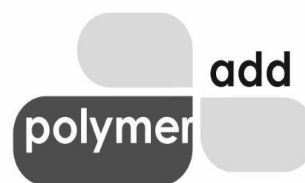
Element	Typical Limit	Test Method
Lead (Pb)	≤5 ppm	ICP, AAS, XRF
Cadmium (Cd)	≤1 ppm	ICP, AAS
Mercury (Hg)	≤1 ppm	ICP, CV-AAS
Arsenic (As)	≤1 ppm	ICP, AAS

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USES / APPLICATION

Industry	Commercial Application / Use
Ultra-Thin Film Coatings	Outdoor architectural powder coatings demanding high weatherability, anti-sagging, and ultra-smooth surface finish.
Industrial & Coil Coatings	Low-bake industrial finishes, coil coating formulations, and weather-resistant coil additives.
Automotive Coatings	Exterior automotive-grade weather-resistant additives and protective powder topcoats.
Specialty Dry Blends	Specialty dry-blend micronized polymer additives for enhanced texturing, film levelling, and UV resistance.

US FDA 21 CFR LISTING

CFR Section	Title / Description
175.300	Resinous and polymeric coatings intended for food-contact surfaces.
177.2420	Polyester resins, cross-linked, used in food-contact applications with specified migration limits.

Disclaimer: This product is intended for industrial and polymer-processing applications only. Compliance for food-contact or medical use must be verified separately. Typical values are not guaranteed specifications and may vary by batch.

Month of Creation: October 2026

Month of Review: October 2028