

# Polymer Add (Thailand) Co.,Ltd.

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

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## TECHNICAL DATA SHEET

### RUBBERGUARD MICROBLEND R85

Micronized Additive Blend for EPDM Automotive Rubber Compounds

#### Product Description

RUBBERGUARD MICROBLEND R85 is a micronized powder additive system designed for EPDM-based automotive rubber compounds. It enhances compound stiffness, surface smoothness, extrusion flow, heat resistance, and dimensional stability—especially under long-term thermal and ozone exposure.

#### Micronized Ingredient Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Micronized Talc	14807-96-6	Reinforcement, stiffness, mold release	40.00
Micronized Mica	12001-26-2	Dimensional stability, electrical insulation, flexibility	25.00
Calcium Carbonate (Fine Grade)	471-34-1	Cost efficiency, bulk filler, mild reinforcement	15.00
Zinc Oxide (Micronized)	1314-13-2	Heat aging resistance, cross-linking catalyst	5.00
Stearic Acid (Micronized)	57-11-4	Processing aid, activation of accelerators	2.00
Synthetic Amorphous Silica	7631-86-9	Surface smoothness, rheology control	2.00
Micronized PE Wax	9002-88-4	Surface slip, demolding aid	1.00
AO-1010+AO-168	6683-19-8 31570-04-4	Thermal & oxidative degradation resistance	1.00
Hydrophobic Silica (R972 or equivalent)	67762-90-7	Anti-caking, flowability	0.50
<b>TOTAL</b>	—	—	<b>100.00</b>

#### Physical Properties

Property	Value
Appearance	Fine light gray to off-white powder
D50 Particle Size	< 10 µm
Bulk Density	0.45–0.60 g/cm <sup>3</sup>
pH (10% slurry)	8–9
Moisture Content	< 0.5%
Shelf Life	24 months from production date
Compatibility	EPDM, NR/EPDM blends, EPDM/PP TPVs

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## Recommended Dosage

Use at **20 to 80 kg/MT** depending on compound design, required hardness, and extrusion flow behavior. Common dosage in automotive seals: 30–60 kg/MT.

## Storage and Handling

Store in sealed bags in a dry environment. Protect from moisture and heat. Use standard PPE and dust extraction during handling.

## Packing Instructions

Packaging Format	Details
Standard Bag	10 kg PE-lined Kraft Paper Bag
Optional	5 kg HDPE moisture-barrier bags
Palletization	500 kg per pallet (50 bags x 10 kg)
labelling	Product Name, Batch No, Net Weight, MFG Date, Expiry Date
Storage Condition	≤ 30°C, RH < 60%, store in ventilated area