TECHNICAL DATA SHEET

Oxidized Polyethylene Wax — Grades 2401, 2452 and 2453

Product Description

Oxidized polyethylene waxes contain polar functional groups. Grades 2401 and 2452 act as lubricants and release agents in PVC processing. Grade 2453 supports emulsification for use in water-based systems.

Physical Characteristics

Property	Test Method	Grade 2401	Grade 2452	Grade 2453
Viscosity at 140°C	ASTM D3236	20 ± 10 cP	50 ± 20 cP	40 ± 20 cP
Ring & Ball Softening Point	ASTM E28	105 ± 10°C	105 ± 5°C	105 ± 5°C
Density at 25°C	ASTM D611*	0.92 ± 0.01 g/cm³	0.92 ± 0.01 g/cm³	0.93 ± 0.01 g/cm³
Acid Number	ASTM D1386	20 ± 3 mg KOH/g	17–20 mg KOH/g	25–30 mg KOH/g
Color	—	Milky white	Yellowish	Yellowish
Form	—	Flake	Pastille	Flake

*Density test method reproduced from the original data sheets; confirmation with the supplier is recommended.

Applications

Grade	Applications
2401	Lubricant and release agent in PVC processing
2452	Lubricant and release agent in PVC processing
2453	Textile auxiliaries, waterborne lacquers, printing inks, and leather processing

Storage and Shelf Life

Store in dry conditions at room temperature. Minimum shelf life is one year from the date of manufacture when properly stored.

Technical Note

Customers should check product quality and suitability before commercial use. The original data sheets state that no guarantee or warranty applies after processing.