

# Marcus Oxidized Polyethylene Waxes

## Product Data Sheet : Marcus Oxidized Low Molecular Weight Polyethylene Waxes

### Typical Properties Marcus Oxidized Polyethylene waxes

CAS no. 68441-17-8

DSL/NDSL RECORD NUMBER : 17493

Marcus Grades	DSC Peak Melting Point, °C (ASTM D 3418)	Mettler Drop Point, °C (ASTM D 3954)	Penetration, dmm @ 100gms 5 Secs at 23 °C (73 °F) (ASTM D 1321)	Viscosity, cps @ 149 °C (300°F) (ASTM D 3236)	Density, Gms/cc (ASTM C 693)	Molecular Weight (Mn) GPC	Acid No. mgms KOH/gm (ASTM D 1386)
M 3300	95 ± 5	100 ± 5	4 ~ 8	20 ± 5	0.96 ~ 0.97	1700 ±10%	7 ± 2
M 3400P	95 ± 5	100 ± 5	4 ~ 8	20 ± 5	0.96 ~ 0.97	1700 ±10%	12 ± 2
M 3400T	95 ± 5	100 ± 5	4 ~ 8	20 ± 5	0.96 ~ 0.97	1700 ±10%	16 ± 2
M 3500	95 ± 5	100 ± 5	4 ~ 8	20 ± 5	0.96 ~ 0.97	1700 ±10%	24 ± 2

Marcus 3300; 3400 and 3500 Oxidized Polyethylene waxes are manufactured using Marcus homopolymer feedstock. The oxidation process is conducted under special conditions to maintain good wax color and hardness.

Marcus Oxidized Polyethylene waxes can be used for making high quality emulsions (see Marcus EML literature) or where a functional or polar wax is desirable. In general, an acid value >16 mgKOH/g is recommended for emulsion manufacture.

### Packaging and Product Form

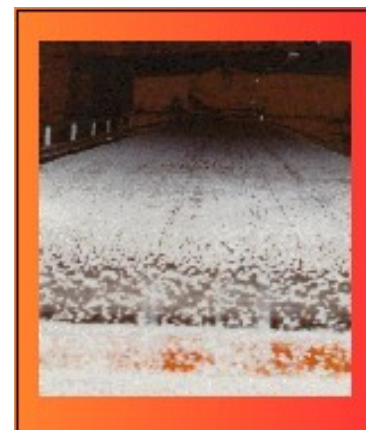
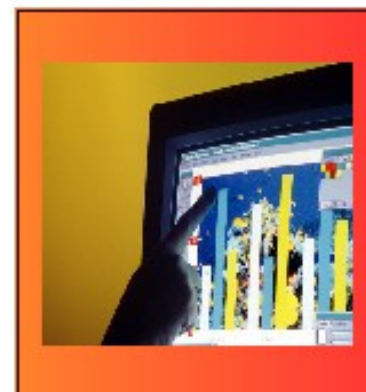
Standard packaging is in 55 lb (25kg) plastic lined kraft bags with 40 bags to the pallet (2500 lbs). Supersacks and Gaylord boxes are available upon request.

Marcus 3300; 3400 and 3500 Oxidized Polyethylene waxes are available as white spray prills (approx. 1-3mm typ.), liquid and ground. Flake and special grinds are available upon request.

Micronized Marcus homopolymer waxes are also available (see Marcus Micronized Wax brochure (PRD-MIC)).

### Safety

Marcus Polyethylene homopolymers are regarded as non-hazardous when exposure is controlled using accepted industrial hygiene practices. Please consult the Material Safety Data Sheet for specific information on the safe handling of Marcus Polyethylene waxes.



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