Typical Properties Marcus Oxidized Polyethylene waxes
CAS no. 68441-17-8
DSL/NDSL RECORD NUMBER : 17493

<table>
<thead>
<tr>
<th>Marcus Grade</th>
<th>Mettler Drop Point °C</th>
<th>DSC Peak °C</th>
<th>Needle Penetration dmm</th>
<th>Viscosity mPas @149°C</th>
<th>Density gms/cc</th>
<th>Acid No Mg KOH/gm</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3300</td>
<td>112</td>
<td>109</td>
<td>4</td>
<td>20-40</td>
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</table>

Test Method
ASTM D3954
ASTM D3418
ASTM D1321
ASTM D3236
ASTM D1505

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 pastilles (approx. 3-6 mm dia), 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.