



Manufacturer
of
Specialty
Chemicals

GMT Corporation

Address : 901-5 Jangcheon-Ro, Cheoncheon-Myeon
Jangsoo-Kun, Jeonbook, 597-851 Korea
Phone : +82-63-353-2470 Fax : +82-63-353-2471
e-mail : gmt@gmt-chem.co.kr
<http://www.gmt-chem.co.kr>

GMT-1800 Series High Density Oxidized Polyethylene Waxes

The GMT-1800 Series is a range of high density, high melt point oxidized polyethylene waxes developed by GMT Corporation of Korea. The GMT-1800 Series finds application in a wide variety of chemical industries such as emulsion, polish, coating and PVC processing. In emulsions, the GMT-1800 Series imparts improved scuff resistance, durability and gloss to the dried films, and shorter emulsion time is observed for these products compared with competitive materials. In PVC processings, the GMT-1816 works well as a processing aid.

Typical Properties of GMT-1800 Series

Properties	Test Method	GMT-1807	GMT-1816	GMT-1825	GMT-1830
			GMT-1816F		
Density @23°C (g/cm ³)	ASTM D-1505	0.98	0.98	0.99	0.99
Acid Number (mgKOH/g)	ASTM D-1386	7	16	25	30
Melt Viscosity @180°C (cps)	Brookfield	47,000	11,000	8,000	9,000
Penetration @23°C (dmm)	ASTM D-5	< 0.5	< 0.5	< 0.5	< 0.5
DSC Melt Peak (°C)	DSC	134.9	134.5	133.1	133.0
Softening Point (R&B, °C)	ASTM E-28	134.2	133.8	133.4	133.2
Appearance	Mesh Test	Powder #24 Pass	Powder #24 Pass	Powder #24 Pass	Powder #24 Pass
			Fine Powder #42 Pass		
Emulsifiability	Pilot Test	-	Fair	Good	Excellent
Transparency	Visual	-	Fair	Good	Better
Saponification Number	ASTM D-1387	14	33	42	75

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