



CARBOWAX™ Polyethylene Glycol 4000 Flake (Inhibited)

Product Description

CARBOWAX™ Polyethylene Glycol (PEG) 4000 Flake is a hard, waxy solid having the appearance of thin, irregularly shaped shards. The flake thickness is slightly variable within a range of approximately 0.02 – 0.07 inches. CARBOWAX™ PEG 4000 Flake is chemically equivalent to its spherical granular counterpart, being produced from the same molten material manufactured at The Dow Chemical Company's St. Charles Operations (Taft) plant for CARBOWAX™ PEGs in Hahnville, LA. On account of the lower surface area as compared to the granular form, the flaked grade exhibits longer relative dissolution times in water-based applications. This material contains the added stabilizer, BHT, at a nominal concentration of 100 PPM.

Typical Physical Properties – CARBOWAX PEG 4000 ⁽¹⁾

Range of Avg. Molecular Weight	Range of Average Hydroxyl Number, mg KOH/g	Liquid Density g/cc			Melting or Freezing Range, °C	Solubility in Water at 20°C, % by wt
		20°C	60°C	80°C		
3600-4400	25-32	Solid	1.0926	1.0769	53-59	66

Viscosity at 100°C, cSt	Average Number of Repeating Oxyethylene Units	Surface Tension at 25°C mN/m	Heat of Fusion, Cal/g	Heat of Combustion (h) at 25°C, Btu/lb (J/g)	CFTA/INCI Nomenclature
110 - 158	90.5	Solid	45	-11,390 (-26,474)	PEG-90

⁽¹⁾ Typical properties, not to be construed as specifications.

Product Stewardship

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including material Safety Data Sheets, should be consulted prior to the use.

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