

## VISCOCER® functionalised waxes / ADDIMER® wax lubricants and additives

product name	chemical characterisation	main applications	acid number [mg KOH/g]	drop point [°C]	melt viscosity [mPa*s] (at T)	density [g/cm <sup>3</sup> ] at 23°C	penetration [mm*10 <sup>-1</sup> ] at 25°C	colour and supply form	product name
<i>Oxidised waxes and polymers</i>									
VISCOCER® 1017	oxidised HDPE wax	water based emulsions; modification of hot melt and bitume; release agent	17	116	1000 (140°C)	0.97	1	almost white flakes *	VISCOCER® 1017
VISCOCER® 1022	oxidised HDPE wax	water based emulsions; modification of hot melt and bitume; release agent	22	112	525 (140°C)	0.97	1	almost white flakes *	VISCOCER® 1022
VISCOCER® 2016	oxidised LDPE wax	lubricant for PVC; water based emulsions	16	102	800 (140°C)	0.94	4	almost white flakes *	VISCOCER® 2016
VISCOCER® 2214	oxidised LDPE wax	lubricant for PVC	14	99	250 (140°C)	0.94	6	almost white flakes *, **	VISCOCER® 2214
VISCOCER® 2216	oxidised LDPE wax	lubricant for PVC; water based emulsions	16	100	230 (140°C)	0.94	6	almost white flakes *, **	VISCOCER® 2216
VISCOCER® 2316	oxidised PE wax	lubricant for PVC; water based emulsions	16	104	170 (140°C)	0.94	3	almost white flakes *, **	VISCOCER® 2316
VISCOCER® 2316 M	oxidised PE wax	lubricant for PVC; water based emulsions	16	102	110 (140°C)	0.94	3	almost white flakes *, **	VISCOCER® 2316 M
VISCOCER® 2322	oxidised PE wax	water based emulsions	22	103	170 (140°C)	0.94	2	almost white flakes	VISCOCER® 2322
VISCOCER® 3030	oxidised synthetic wax	water based emulsions; eg. for release agent	30	103	20 (120°C)	0.96	4	almost white flakes *	VISCOCER® 3030
VISCOCER® 807 Fine Powder	oxidised polyolefin	fusion control and metal release in PVC applications	7	135 (DSC)	26000 (170°C)	0.98	< 1	white powder	VISCOCER® 807 Fine Powder
VISCOCER® 816 Fine Powder	oxidised polyolefin	fusion control and metal release in PVC applications; water based emulsions	16	135 (DSC)	8000 (160°C)	0.98	< 1	white powder	VISCOCER® 816 Fine Powder
VISCOCER® 824 Fine Powder	oxidised polyolefin	water based emulsions	24	135 (DSC)	15000 (160°C)	0.98	< 1	white powder	VISCOCER® 824 Fine Powder
<i>Polyester waxes and modified polyester waxes</i>									
ADDIMER® 592	polyester wax	flow improvement and pigment dispersion in polar and non polar plastics; compatibiliser for fibres and fillers; flow and levelling additive in powder coatings	11	60	550 (120°C)	0.97	5	white prills	ADDIMER® 592
ADDIMER® 640	polyester wax	dispersing additive for technical plastics, compatibilizer for fibers and fillers, improved flow properties and gloss	40	70	150 (120°C)	0.97	3	white prills	ADDIMER® 640
ADDIMER® 677	silicone modified polyester wax	release agent for plastics processing and in emulsions	40	68	200 (120°C)	0.98	8	almost white prills	ADDIMER® 677
ADDIMER® 697	calcium saponified polyester wax	release agent in plastics processing, release agent for thermotransfer applications	5	90	140 (120°C)	0.98	3	yellowish flakes *	ADDIMER® 697
<i>Saponified synthetic waxes</i>									
ADDIMER® 423	lithium saponified synthetic wax	mould release and polishes, solvent- and waterborne, sizing agent	13	110	230 (140°C)	0.94	2	pale yellowish flakes *	ADDIMER® 423
<i>Maleic acid anhydride grafted waxes</i>									
ADDIMER® 630 R	maleic acid anhydride grafted wax	wetting and compatibilising of wood fibres	30	108	40 (120°C)	0.97	< 1	almost white flakes *	ADDIMER® 630 R
ADDIMER® 631 R	maleic acid anhydride grafted PE wax	coupling agent for fibres / fillers in PE and PVC based WPC, hot melt, water based emulsions	30	112	150 (120°C)	0.96	< 1	almost white flakes *	ADDIMER® 631 R
ADDIMER® 840R	maleic acid anhydride grafted PP wax	coupling agent in glass fibre filled PP, compatibiliser in PP based WPC, in emulsion for glass fibre sizing and mould release applications	40	152	800 (170°C)	0.93	< 1	pale yellowish flakes *	ADDIMER® 840 R

\* = also available as „Powder“: particle size d50 ~ 500 µm, \*\* = also available as spray prills

## ADDIMER® wax lubricants and additives

### Ionomers

product name	product description	appearance	viscosity [mPa*s] (at T)	major field of application
ADDIMER® 126	sodium ionomer	white to off white powder	~7600 (120°C)	internal lubricant / nucleating agent in plastics
ADDIMER® 156	calcium ionomer	white to off white powder	~2800 (150°C)	internal lubricant / nucleating agent in plastics
ADDIMER® 163	zinc ionomer	white to off white powder	~3500 (190°C)	internal lubricant / nucleating agent in plastics

### Additives for plastics processing

product name	chemical function	main applications	colour and supply form
ADDIMER® 901N	nucleating additive for PP	synergistic working additive based on a nano-scale nucleating agent polymerised in a flow improving additive	white powder
ADDIMER® PO 49	MFI increasing additive for PP	additive to increase/adjust the MFI of PP (e.g. recycled) for injection moulding application, provides additionally high surface gloss and improved flow properties	off white granules
ADDIMER® RC 75	processing additive for technical plastics	additive to improve flow properties and mould release in the processing of engineering plastics (e.g. PA); provides high surface gloss	off white granules

### Functionalised wax specialties

product name	chemical characterisation	main applications	acid value [mg KOH/g]	drop point [°C]	viscosity [mPa*s] (at T)	colour and supply form
ADDIMER® 682	phosphonate functionalised wax	paste building additive in lubricant formulations. Dispersing additive for inorganic fillers, lubricant in plastic processing by adsorption on metal surface.	14	72	50 (120°C)	yellowish-white

### Wax compound for release agents

product name	chemical characterisation	main applications	acid value [mg KOH/g]	drop point [°C]	viscosity [mPa*s] (at T)	colour and supply form
ADDIMER® 221N	wax compound	stabiliser for paraffins and microcrystalline waxes in solvent borne formulations / release agent formulations	10	107	20 (120°C)	white flakes