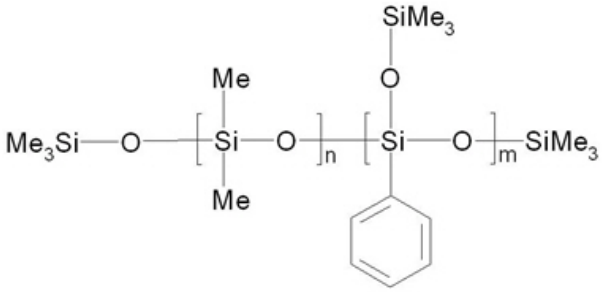
BELSIL® PDM 20

TRIMETHYLSILOXYPHENYL DIMETHICONE

Product description

Structural formula:



BELSIL® PDM 20 is a phenyl-modified polydimethylsiloxane characterized by having a higher refractive index than dimethicone fluids (1.38-1.40). It offers clear advantages over dimethicones with regard to skin feel, shine and compatibility with other cosmetic raw materials.

Application

BELSIL® PDM 20 is used in all kinds of cosmetics formulations, but mostly in hair care compositions and color cosmetic due to their shine-enhancing benefits. BELSIL® PDM 20 reduces the stickiness of formulations containing acrylic acid polymers. It is an excellent emollient in skincare products, imparts a very pleasant feel to the skin, and provides water-repellency.
In antiperspirant formulations, phenyl-modified silicones are employed as a refractive-index match to promote the formation of clear products.

Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site http://www.wacker.com.

Product data

Typical general characteristics	Inspection Method	Value
Appearance		clear, colorless
Viscosity, kinematic at 25 °C	DIN 51562	approx. 20 mm²/s
Refractive index at 25 °C		1,437
Density at 25 °C, at 1013 hPa	DIN 51757	approx. 1,0 g/cm³
INCI name		Trimethylsiloxyphenyl Dimethicone
Flash point	ISO 2719	approx. 170 °C
Ignition temperature (liquids)	DIN 51794	approx. 450 °C

These figures are only intended as a guide and should not be used in preparing specifications.

Additional information

Solubility

Ingredient	BELSIL® PDM 20	Ingredient	BELSIL® PDM 20
Mineral oils / waxes		**Emulsifiers / ethoxylated oils**	
C9-13 isoparaffin	✓	PEG-75 Lanolin oil	-
Mineral oil (high-visc.)	✓	PEG-7 Glyceryl Cocoate	✓
Mineral oil (low-visc.)	✓	PPG-5-Laureth-5	✓
Esters / Ester oils		**Alcohols & water**	
Ethyl acetate	✓	Octyl dodecanol	✓
C12-15 alkyl benzoate	✓	Oleyl alcohol	✓
Isopropyl myristate	✓	Isopropanol	✓
Decyl oleate	✓	Ethanol	✓
Oleyl oleate	✓	Propylene glycol	-
		Glycerol	-
Triglycerides		Water	-
Castor oil	p		
Olive oil	✓	**Silicone fluids**	
Wheatgerm oil	✓	Cyclopentasiloxane	✓
Lanolin oil	✓	Cyclopentasiloxane, Dimethicone (BELSIL® CM 1000)	✓
Capriylic/Capric triglycerides	✓		
		Disiloxane (BELSIL® DM 0.65)	✓
UV-Filters		Dimethicone (BELSIL® DM 1 Plus)	✓
Ethylhexyl Methoxycinnamate	✓	Dimethicone (BELSIL® DM 10 - DM 500000)	✓
Ethylhexyl Salicylate	✓		
		Cylopentasiloxane, Caprylyl Dimethicone Ethoxy Glucoside (BELSIL® SPG 128 VP)	✓

✓ = soluble (> 10%) p = partially soluble (1 - 10%) - = insoluble

For technical, quality, or product safety questions, please contact:

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