

POLIMER MV

Vinyl - functional silicone polymer

PRODUCT DESCRIPTION

POLIMER MV is methylvinylsilicone gum for manufacturing HTV silicone and is the main starting material for production of POLSIL® GUM silicone rubber. This polymer is manufactured in two basic grades containing different quantity of vinyl groups:

POLIMER MV 0,07 - 0,07 % (mol/mol)

POLIMER MV 1,0 - 1,0 % (mol/mol)

By mixing both types of the polymers in the proper ratio it is possible to adjust parameters of the rubber (hardness, durability, elasticity, etc.).

Due to the presence of double bonds, this type of rubbers are more susceptible to crosslinking (vulcanization) giving silicone gum very good compression resistance and elasticity.

CHARACTERISTICS

POLIMER MV is colourless high viscous liquid.

PARAMETERS	UNIT	PROPERTIES	
		POLIMER MV 0.07	POLIMER MV 1.0
Molecular weight	kg/mol	600 000 – 720 000	500 000 – 630 000
Vinyl group content	%(mol/mol)	0,05 – 0,09	0,9 - 1,1
Solids content	%(m/m)	< 3	< 3

Note! Upon customer request, polymer can be produced with a molecular weight within the 500 000 - 720 000 kg / kmol and the vinyl content of 0,03 to 1,1% (mol / mol).

PROPERTIES OF VULCANIZATES

Vulcanizates manufactured from the pure, unfilled Polymer MV have a poor mechanical properties. To obtain a silicone rubber with a good use properties the reinforcing fillers, especially pyrogenic silica should be added to the Polymer MV.

As a result, after the vulcanization the compounds are processed into rubber of very good mechanical properties, high flexibility and transparency (which can be also easily coloured). Their property can be controlled by adjusting the composition of compounds: the amount of POLIMER MV 0,07 and POLIMER MV 1,0, the quantity and type of filler and additives.

Storage:

POLIMER MV should be stored in original tightly closed containers at temperature from 0° to 30°C in dry rooms. Product should be protected against humidity.

Warranty period:

24 months from the date of manufacture.

Packaging:

5, 30 kg

Producer's notes

The information contained in this document is given in good faith based on our current knowledge. However, this shall not constitute a guarantee for any specific product features. Each user bears the full responsibility for making its own determination as to the suitability of product for its own particular purpose. Because actual use of product by the user is beyond our control, such use is within the exclusive responsibility of the user, and we cannot be held responsible for any loss incurred through incorrect or faulty use of the product. For more detailed information please contact us in writing or by phone.