



Silplus* 80 MP

Product Description **Silplus* 80 MP** is a heat cured elastomer with outstanding processing capability. **Silplus* 80 MP** when properly compounded and catalyzed can be used for a wide variety of applications, it is suitable for extrusion, moulding and calandering.

Key Performance Properties

- Compounding simplicity
- Good extrudability
- High mechanical properties
- Good green strength
- Versatile

Regulatory compliance

- Compliance with FDA and BfR Recommendations
- Biocompatible with USP Class VI/ISO 10993

Potential Applications

Because of its outstanding properties, Silplus* 80 MP is an excellent candidate for all kind of molding, extrusions and calendarings.



Typical Product Data

Typical Properties of the Uncured Base Compound:			
Appearance			translucent
Density	DIN 53 479 A	g/cm ³	1.19
Mooney viscosity	DIN 53 523		
ML (4) 25 ° C		ME	65
Δ ML 0/ ML4		ME	≤ 20
Typical Properties of the Vulcanized Rubber:			
100 (pbw) Silplus* 70 MP with 0.4 (pbw) like 2,5-Dimethyl-2,5-di(tert.butylperoxy)hexan (100%) Vulcanization conditions: 10 min. @ 170 ° C			
Hardness	DIN 53 505	Shore A	77
Tensile strength	DIN 53 504 S2	N/mm ²	10,5
Elongation at break	DIN 53 504 S2	%	350
Tear strength	ASTM D 624 die B	N/mm	22
Compression set (22 h @ 175°C)	ISO 815	%	30
Typical Properties of the Vulcanized Rubber:			
100 (pbw) Silplus* 70 MP with 1.5 (pbw) bis-(2,4-dichlorobenzoyl)-peroxide (50 %) Vulcanization conditions: 10 min. @ 125 ° C post cured: 6 h @ 200 ° C			
Hardness	DIN 53 505	Shore A	75
Tensile strength	DIN 53 504 S2	N/mm ²	12
Elongation at break	DIN 53 504 S2	%	420
Tear strength	ASTM D 624 die B	N/mm	30

Specifications Typical Product Data should not be used as specifications. Assistance and specifications are available by contacting Momentive performance materials or the next Sales Office.

Packaging **Silplus* 80 MP** is available in 500 kg boxes

Instructions for Use Various organic peroxides will vulcanize the compounding bases. Fabricators should make their selection of curing agent on the basis of method of fabrication, desired properties, and safety considerations. They are mixed into the rubber on a two-roll-mill, if necessary together with Additives. If the goods are to be vulcanized without pressure, e.g. in hot air or in an infrared radiation tunnel, bis-2,4-dichlorobenzoyl-peroxide (50%) is recommended. The dosage ranges from 1-2 parts (pbw) of cross-linking agent on 100 parts (pbw) of base compound. Good results have been achieved with a dosage of 1.5 parts (pbw). While the cross-linking agent is being incorporated the temperature of the compound should not exceed 40°C to avoid scorch. So the mixer or mill should always be well cooled.



To vulcanize goods in a press or in steam, Dicumyl peroxide (95 %) or like 2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane is generally recommended. Dicumyl peroxide crystals need to be melted in the rubber to become homogeneous and effective.

Patent Status Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at www.momentive.com or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials products may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.



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