

# Product Information

## PP Fibers - Polymacro

### Product Description:

PP Fibers - Polymacro are wavy shaped polypropylene synthetic fibers that have been specifically designed for shotcrete, tunnel linings and other concrete structural reinforcement applications. The fibers increase the strength and cracking resistance of the concrete by effective energy absorption and load distribution of the concrete. Synthetic fibers are homogenous, light weight, non-magnetic and corrosion resistant unlike steel fiber and wire mesh. Polypropylene fibers have high thermal and chemical stability.

### Applications:

PP Fibers - Polymacro are used as an additive in shotcrete and concrete to increase its strength, cracking resistance and reduce spalling. It can be used in industrial floors, shotcrete, tunnelling, concrete pipes, precast concrete, concrete roads and pavements.

### Chemical Formula:

$(C_3H_6)_n$

### CAS No. :

9003-07-0

### Specifications:

Parameters (units)	Specifications
Color	Colorless and clear
Length (mm)	54 ± 2
Aspect ratio, approx.	77
Density, approx. (g/cm <sup>3</sup> )	0.91
Elastic modulus (GPa)	≥ 11
Tensile strength (MPa)	≥ 750
Melting point (°C)	≥ 165

Bisley International LLC  
1790 Hughes Landing Boulevard Suite 400  
The Woodlands 77380 TX USA  
Phone number: +1 (844) 424 7539  
Emergency telephone number: +1 855 237 5573

[bisleyinternational.com](http://bisleyinternational.com)

Copyright 2021 Bisley & Co. Pty Ltd. All rights reserved



## Dosing:

Doses of synthetic macro fibers vary between 2.5 - 10 kg/m<sup>3</sup> depending on desired engineering requirements. Homogeneous mixture is obtained by the addition of PP Fibers - Polymacro to the aggregate band at the concrete batching plant or by mixing in a high-speed concrete mixer for at least 5 minutes. It is recommended to use plasticizer additives in high doses.

## Packaging:

Material is available in 5 kg bags. Further packaging options may be available upon enquiry.

## Storage:

Product should be stored in a dry place away from direct sunlight in sealed, original packaging. Should not be stored near flammable and oxidizing material.

## Safety:

For further safety information refer to product SDS available from your Bisley International contact.

Disclaimer: This document is for information purpose only. Customers are responsible for testing and conforming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.

### Global Headquarters

#### Sydney, Australia

Bisley & Company  
Level 12, Tower B Citadel Towers  
799 Pacific Highway  
Chatswood NSW 2067 Australia  
Phone: +61 2 8905 4200  
Fax: +61 2 8905 4238  
Email: [australia@bisley.biz](mailto:australia@bisley.biz)

### Jakarta, Indonesia

PT Bisindo Kencana  
Puri Indah  
Financial Tower  
9<sup>th</sup> Floor, Unit 09 Jalan Puri  
Lingkar Dalam Blok  
T8 Jakarta Barat 11610  
Indonesia  
Phone: +6221 530 7287

### Bangkok, Thailand

Bisley Asia (Thailand) Co. Ltd.  
Mahatun Plaza Building 18th Floor  
888/186 Ploenchit Road  
Lumpini, Pathumwan  
Bangkok 10330  
Thailand  
Phone: +66 0 2689 6396  
Fax: +66 0 2689 6394

### Kuala Lumpur, Malaysia

Bisley Asia (M) Sdn Bhd  
Co. Reg. No.:199201002123  
(233627-U)  
Suite 20-01 & 20-02B,  
Level 20, The Pinnacle,  
Persiaran Lagoon, 47500  
Bandar Sunway, Subang Jaya Selangor,  
Malaysia  
Tel: +603-56244287/4289  
Fax: +603-56244201

### Dubai, United Arab Emirates

Bisley Chemicals Trading LLC  
1802 B2B Office Tower  
Business Bay  
PO Box 9298  
Dubai United Arab Emirates  
Phone: +971 4 3310088  
+971 4 3310111  
Fax: +971 4 3310099

### USA and Canada

Bisley International LLC  
1790 Hughes Landing Boulevard  
Suite 400  
The Woodlands 77380 TX USA  
Phone: +1 (844) 424 7539  
Emergency telephone number:  
+1 855 237 5573  
Email: [international@bisley.biz](mailto:international@bisley.biz)

Bisley International LLC  
1790 Hughes Landing Boulevard Suite 400  
The Woodlands 77380 TX USA  
Phone number: +1 (844) 424 7539  
Emergency telephone number: +1 855 237 5573

[bisleyinternational.com](http://bisleyinternational.com)

Copyright 2021 Bisley & Co. Pty Ltd. All rights reserved

