

## EARTH FIBER PP SHIELD (POLYPROPYLENE FIBER)

High Performance Polypropylene Fiber for  
Stronger, Smarter & Sustainable Construction

### WHY EARTH FIBER?

At Earth Fibrex Infra Pvt Ltd, we deliver innovative fiber solutions engineered to enhance strength, durability and sustainability of construction.

Our Earth Fiber PP Shield (Polypropylene Fiber) is manufactured using premium grade raw material with advanced technology, ensuring consistent quality and superior performance.

**Stronger structures. Longer life.  
Better tomorrow.**

### BENEFITS OF EARTH FIBER PP SHIELD

-  Enhances tensile strength and crack resistance
-  Reduces plastic shrinkage and settlement cracks
-  Improves impact, abrasion and fatigue resistance
-  Excellent alkali resistance and chemical stability
-  Lightweight, easy to handle and uniformly dispersible
-  Cost effective alternative to steel reinforcement



### FIBER SPECIFICATIONS

| S.NO. | PROPERTIES                   | UNITS                | POLY FIBER (PP SHIELD) | REMARKS                                                |
|-------|------------------------------|----------------------|------------------------|--------------------------------------------------------|
| 1     | SHAPE                        | –                    | ROUND/TRIANGULAR       | –                                                      |
| 2     | CUT LENGTH                   | mm                   | 12mm                   | Length = 3–50mm as specified by customer               |
| 3     | EFFECTIVE DIAMETER           | Microns/denier       | 30 microns / 6 deniers | 20–300 microns / 3–60 deniers as specified by customer |
| 4     | SPECIFIC GRAVITY             | KG/M/CU              | 1.25 – 1.35            | –                                                      |
| 5     | MELTING POINT                | DEG C                | 160–170                | –                                                      |
| 6     | TENSILE STRENGTH             | GPD-GRAMS PER DENIER | 6 +/- 10%              | –                                                      |
| 7     | BREAKING ELONGATION          | %                    | 100 +/- 30             | OR SPECIFIED BY CUSTOMER 50–130                        |
| 8     | WETTABILITY / DISPERSABILITY | –                    | EXCELLENT IN WATER     | –                                                      |
| 9     | YOUNGS MODULUS               | MPA                  | >4000                  | TEST DONE AS PER SPECS                                 |
| 10    | ALAKLINE STABILITY           | –                    | VERY GOOD              | –                                                      |

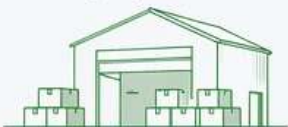


We assure all the contents specified in the table are true and only may vary in the condition of customized variable standards mentioned in the remarks.



### STORAGE

- Store in a cool, dry and ventilated area.
- Keep away from direct sunlight and moisture.
- Ideal storage temperature: 5°C to 35°C.
- Properly sealed packs recommended to maintain quality.



### APPLICATIONS

- Concrete & RMC
- Precast Elements
- Industrial Flooring
- Tunneling & Shotcrete
- Pavement & Roads
- Plastering & Mortar
- Water Retaining Structures
- Slope & Soil Stabilization



### APPLICATION PROCEDURE

- Dosage**  
Use as per design requirement (typically 0.6 kg – 1.8 kg per m<sup>3</sup> of concrete).
- Addition**  
Add fibers gradually into the mixer after dry mixing of other ingredients or directly into the mix.
- Mixing**  
Mix for minimum 3–5 minutes to ensure uniform dispersion.
- Curing**  
Follow standard curing practices for optimum performance.

## EARTH FIBREX INFRA PVT LTD

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PREMIUM  
QUALITY



CONSISTENT  
PERFORMANCE



SUSTAINABLE  
SOLUTION



TRUSTED BY  
PROFESSIONALS

YOU IMAGINE. WE CREATE.