



**MUSA**  
**POLY PACK**  
geosynthetics

# GEO TEXTILE

## Introduction

**Musa Poly Pack** is one of the leading suppliers in geotextiles with manufacturing locations in Lahore, Pakistan. **Musa Poly Pack** develops, produces and sells high quality nonwovens and wovens made from different polymers which help our customers to be successful in their projects.

The quality systems of **Musa Poly Pack** facilities are certified according to ISO 9001.

## NON WOVEN GEO TEXTILE

MUSA Poly Pack geotextiles are made from high-quality polypropylene staple fibers that are needle-punched to form a dimensionally stable fiber network that can withstand construction and installation stresses. These versatile geotextiles are the best choice for most transportation infrastructure applications.

### PRIMARY FUNCTIONS

- Separation/stabilization
- Filtration and drainage
- Cushion/protection
- Demarcation

### APPLICATIONS

- Paved and unpaved roads
- French drains and edge drains
- Landfills
- Hard armor underlayment
- Containment ponds
- Tunnel linings
- Railroad beds

### FEATURED BENEFITS

- Saves aggregate, reducing project cost and carbon footprint
- Doubles the service life of the road
- Offers the highest water flow rate and lateral transmissivity to reduce pore water pressure under traffic loading
- Features high lateral transmissivity to prevent pore pressure from building-up under truck traffic loading
- High interface friction to restrain and strengthen aggregate layers

## WOVEN GEO TEXTILE

MUSA Poly Pack Woven geotextiles are manufactured with high tensile strength and low elongation to provide dimensional stability and load distribution, reducing rutting and extending the life of roadways.

### PRIMARY FUNCTIONS

- Soil reinforcement
- Separation/stabilization
- Filtration (monofilament styles only)

### APPLICATIONS

- Paved roads
- Embankment stabilization
- Hard armor underlayment
- Roadway construction over soft soils
- Silt fence

### FEATURED BENEFITS

- Increased service life of the road
- Requires less aggregate during construction, reducing carbon footprint and project cost
- Provides added construction stability over very soft soils (CBR < 1)
- High modulus enhances mechanically stabilized earth walls and slopes

Specification of GEO TEXTILE					
Technical Characteristics	Unit	Standard Values			
		0200-MPP	300-MPP	0400-MPP	0600-MPP
Product Code					
Mass per unit area	[g/m <sup>2</sup> ]	200	300	400	600
Thickness	Mm	2.0	3.0	4.5	5.5
Tensile strength(MD)	[KN/m]	12.0	17.0	25.0	35.0
Tensile strength(CD)					
Elongation (MD )	[%]		40-80		
Elongation (CD )					
CBR Puncture strength CBR	[KN]	2.0	3.0	5.0	7.0
Equivalent hole diameter O90	[mm]		0.07~0.20		
Vertical water flow	[cm/s]		0.001~0.99		
Tearing strength(MD)	[KN]	0.40	0.55	0.70	0.90
Tearing strength(CD)	[KN]	0.35	0.50	0.60	0.80

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