



**INTEGRITY DEFENSE ARMOR**

**5446 1<sup>ST</sup> STREET, SUITE A, KATY, TX 77493**

## **RM-PE1 - UHMWPE (UD) TECHNICAL DATA SHEET**

**RM-PE1** is an Ultra-High Molecular Weight Polyethylene fiber based Uni-directional composite laminate for Ultralight™, Hyperlight™ and various hard and soft armor applications. The product consists of four single layers of unidirectional sheet cross plied at 90 degrees to each other and consolidated with a A/B matrix and TPU cover.

### **SPECIFICATIONS:**

|                          |                    |
|--------------------------|--------------------|
| Areal Density            | 112±3gsm           |
| Strength of Fiber        | No Less than 38g/d |
| Modulus                  | 1300g/d            |
| strands                  | 240                |
| Monofilaments fitness    | 3.3                |
| Elongation at break      | 2.8                |
| Shrinkage                | 1%                 |
| Melting Mass Temperature | 145-153°C          |

Veterans MFG offers Ultralight™ and Hyperlight™ lines of products in addition to many others which utilize RM-PE1. RM-PE1 has been lab tested in various sizes, formats, mixtures and applications.

- RM-PE1 is Subject to jurisdiction of the U.S. Department of Commerce, and is exported using Export Control Classification Number (ECCN) 1C990. Restrictions may therefore apply to the export and re-export of this product.
- Metric Units are used in this document.

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