



**PAKISTAN  
LEATHER GARMENTS  
MANUFACTURERS & EXPORTERS  
ASSOCIATION**

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**TO GETHER  
FOR  
LEATHER**

## What are some innovative techniques and technologies being used to enhance the durability and longevity of leather goods?

Enhancing the durability and longevity of leather goods is a priority for both manufacturers and consumers. Several innovative techniques and technologies have emerged to achieve this goal:

**Vegetable Tanning:** This traditional tanning method uses tannins from plant sources like oak and chestnut. It results in a firmer and more durable leather compared to chrome tanning, which is commonly used. Vegetable-tanned leather is also more environmentally friendly.

**Waterproofing Technologies:** Various waterproofing treatments have been developed to protect leather goods from moisture, rain, and stains. Nano-coatings and breathable waterproof membranes are used to maintain leather's natural breathability while repelling water.

**Nanotechnology:** Nanoparticles can be incorporated into leather to enhance its strength and resistance to wear and tear. Nano-sized ceramic particles or polymers are sometimes added to leather during the tanning process to improve its durability.

**Biotechnology:** Researchers are exploring bioengineered leather that is grown in labs using cells from animal sources. This approach eliminates the need for traditional tanning processes, which can be harmful to the environment, and allows for the

for the customization of leather properties, including durability.

**Hybrid Materials:** Combining leather with other materials, such as Kevlar or carbon fiber, can create hybrid materials that are incredibly strong and long-lasting. These hybrids are often used in applications where extreme durability is required, like motorcycle gear.

**Smart Leather:** Smart textiles and electronics can be integrated into leather goods to enhance functionality and durability. For example, leather jackets with built-in heating elements or bags with integrated wireless charging capabilities.

**Nano fiber Coatings:** Nano fiber coatings can be applied to leather surfaces to increase abrasion resistance and prevent scratches. These coatings create a protective barrier while maintaining the natural look and feel of leather.

**Recycling and Up cycling:** The use of recycled leather or up cycled leather from old products is becoming more popular. This reduces waste and promotes sustainability while still providing durable leather goods.

**Biodegradable Leather:** Researchers are working on developing biodegradable leather alternatives that break down more easily after disposal, reducing the environmental impact of leather production.

**Advanced Stitching and Bonding Techniques:** Innovations in sewing and bonding technologies, such as laser cutting and ultrasonic welding, can improve the structural integrity of leather goods, making

making them more resistant to wear and tear.

**Anti-Microbial Treatments:** Leather goods can be treated with anti-microbial coatings to prevent the growth of bacteria and fungi, which can lead to deterioration over time.

**UV Protection:** Leather can be treated to protect it from UV radiation, which can cause fading and deterioration over time. UV-resistant coatings and dyes help preserve the color and strength of leather products.

These techniques and technologies are continually evolving to meet the demands of consumers for longer-lasting, more sustainable and durable leather goods. Manufacturers are also under increasing pressure to consider environmental factors, which has led to the development of more eco-friendly leather production methods.

### DO YOU HAVE SOMETHING TO SHARE ?

All members are cordially invited to share their personal experiences tips, useful websites, articles or anything beneficial to our members.

Any such information should be sent to PLGMEA NZ office which shall be scrutinized and the published in the next bulletin.

### TARIQ ISMAIL

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## PLGMEA Delegation Meeting with Mr. Zubair Motiwala Chief Executive of TDAP Held on January 04, 2023



## PLGMEA Meeting with Ahsan Iqbal Planning Minister for Adopting Export-Oriented Policies Via Zoom Held on February 07, 2023



**Seminar on "Sustainability in Leather Sector" at TDAP HQs, Karachi on March, 20 2023.**



**PLGMEA delegation lead by Mr. Muhammad Ashan ul Haq, chairman (N.Z) visited NUST Islamabad on their invitation on June 5, 2023**



**PLGMEA hosted a lecture on Productivity and Energy Assessment tools on Wednesday May 31, 2023 at 3:30 P.M.**



**Mr. Ahsan-ul-Haq Chairman PLGMEA (N.Z) hosted a dinner on June 22 2023 at Grandiose Restaurant.**



**The 4th Meeting of Central Executive Committee of PLGMEA via Zoom Held on July 25, 2023.**



**PLGMEA Meeting with Ummara Zeeshan Assistant Manager of Punjab Skills Development Fund held on 16 August 2023**



**The Central Chairman Meeting with Director IOCO Held on 16 August 2023..**



**The Annual General Meeting (AGM) of 21th Executive Board of PLGMEA (Northern Zone) Held on September 26, 2023**



## The Annual General Meeting (AGM) of 21th Executive Board of PLGMEA (Central) Held on September 26, 2023



## The Meeting of Sub-committee of PLGMEA (Northern Zone) with Mr. Khalid Rasool (DG TDAP Sialkot) on PLGMEA EDF Project held on November 15, 2023



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### Proposed PLGMEA Business Center (Northern Zone)

