



# ASPUN™ AT Advanced Technology Fiber Resins Keep moving forward

## The next generation of spunbonds and spunblowns

For decades, polyethylene- (PE-)based ASPUN™ Fiber Resins have offered exceptional performance for a broad range of nonwoven hygiene applications.

Now, our most recent development, **ASPUN™ AT Advanced Technology Fiber Resins**, is taking our ultra-soft ASPUN™ technology to new levels.

## Getting better all the time

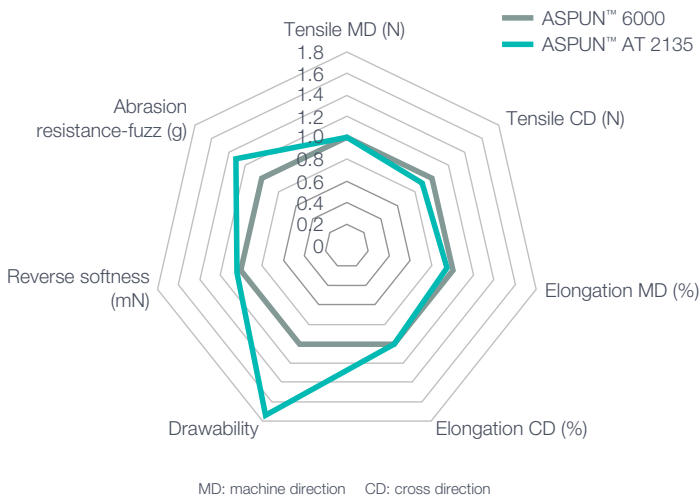
ASPUN™ AT Fiber Resins add enhanced processability and durability to the proven softness, drapability and comfort of ASPUN™ Resins – making them an excellent choice for spunbond and spunblown fabrics used in:

- Personal hygiene wearables
- Nonwoven wipes
- Other spunbond and spunblown nonwoven applications

In addition, this exciting breakthrough enables production of high-quality bicomponent (bico) and monocomponent (mono) materials – without the need for a polypropylene (PP) component.

Figure 1 shows how ASPUN™ AT Fiber Resins offer improved spinnability and abrasion resistance while maintaining the mechanical performance and softness of existing ASPUN™ Resins.

Figure 1: Comparison of ASPUN™ AT and ASPUN™ Fiber Resins<sup>(1,2)</sup>



<sup>(1)</sup> Typical values, not to be construed as specifications. Users should confirm results by their own tests.  
<sup>(2)</sup> Basic sample weight: 20 gsm (grams per square meter)



Need more proof? Figure 2 clearly demonstrates the enhanced abrasion resistance of mono spunbonds made with ASPUN™ AT Fiber Resins.

Equally important, these advanced solutions offer significantly increased softness and drapability compared to both mono and bico PP-based fibers (Figure 3).

Figure 2: Martindale abrasion resistance (60 cycles)<sup>(1,2)</sup>

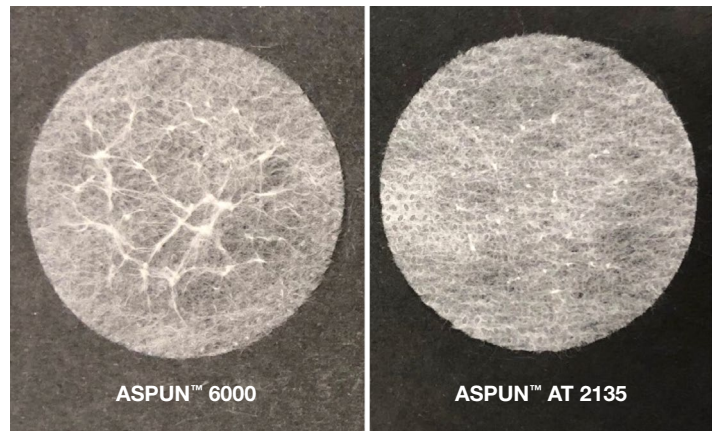
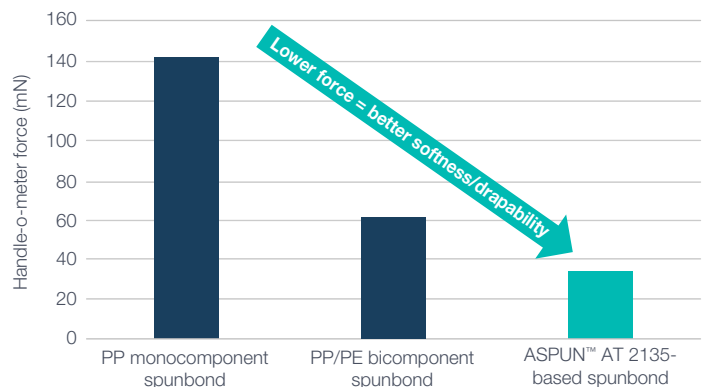


Figure 3: Handle-o-meter evaluation<sup>(1)</sup>



## Why mono matters

By offering a mono-material and monocomponent solution for spunbonds and spunblowns, ASPUN™ AT Fiber Resins are helping drive toward development of easier, more efficient recycling operations.

In conjunction with those efforts, we're working closely with industry experts and other development partners on a number of sustainability-focused programs, including:

- High PE content prototypes ("extreme PE" diapers), which focus on simplifying hygiene product construction to improve recycling streams and recycle
- Advanced recycling initiatives – including PCR (post consumer recycled) and PIR (post industrial recycled) content options
- All PE wipes that combine strong performance with a lower carbon footprint
- Development of bio-based PE from renewable resources such as tall oil



## Even better together

Along with our deep understanding of material science, ASPUN™ AT Fiber Resins allow us to work closely with customers to develop tailored solutions for both new and existing applications. Add in Pack Studios – an exclusive, global network of technical experts, equipment and testing capabilities – and we can help bring innovations to market even faster and more cost efficiently.

We'd love to hear about your nonwovens challenges. We believe that by joining forces, we can help produce more sustainable, circular solutions for the future. Please visit [dow.com](https://www.dow.com) or contact your Dow representative to get the conversation started.

For more information about Dow, visit [www.dow.com/about](https://www.dow.com/about). To contact a Dow representative, visit, [www.dow.com/contact](https://www.dow.com/contact).

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

THIS INFORMATION IS OFFERED IN GOOD FAITH FOR YOUR CONSIDERATION, BUT WITHOUT GUARANTEE OR WARRANTY (EXPRESS OR IMPLIED), AS ANALYTICAL CONDITIONS AND METHODS OF USE OF THE INFORMATION AND MATERIALS DESCRIBED HEREIN MAY VARY AND ARE OUT OF DOW'S CONTROL. ALTHOUGH THIS INFORMATION IS BASED ON DATA DOW BELIEVES TO BE RELIABLE AND ACCURATE, WE DO NOT INTEND FOR YOU TO USE, AND YOU THEREFORE SHOULD NOT CONSTRUCE, THE CONTENTS OF THIS DOCUMENT AS BUSINESS, TECHNICAL OR ANY OTHER FORM OF ADVICE. WE RECOMMEND YOU DETERMINE THE SUITABILITY OF THE INFORMATION AND MATERIALS DESCRIBED HEREIN BEFORE ADOPTING OR USING THEM ON A COMMERCIAL SCALE. DOW ASSUMES NO LIABILITY IN CONNECTION WITH THE USE OF THIS INFORMATION.

This document is intended for use in North America.  
© 2022 The Dow Chemical Company