Selection

ISPO Top of Innovation Award

Largest Energy Saving Technology in Global Textile Industry

Breakthrough Innovations in Thermal Insulation

APPLICATIONS (TYPICAL)

Apparel, Glove, Home textile products, (Comforters, Pillows, etc.), Sleeping bags, etc., which contain natural down feather material.

FIBER COMPOSITION

100% Polypropylene

FLAMMABILITY

Class 1, Normal according to US Federal Flammable Fabrics Act Procedure in 16 CFR Part 1610.

Innovative Water Molecular Adsorption Process

TECHNOLOGY DESCRIPTIONS

Patent-pending iDown[™] Technology

 H_2O

Proprietary structural example of iDown™

in comparison with Regular down feather

PERFORMANCE FEATURES

Proprietary LRTD[™] (Long Range Thermal Dynamics) Technology for optimum warmth

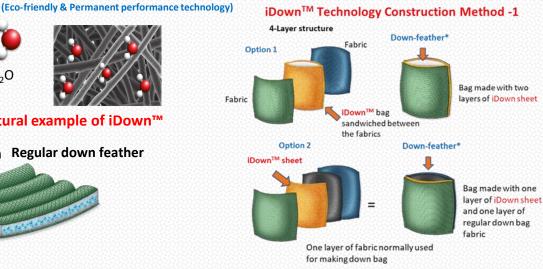
Odor control	Sustainable technologies
Down leak proof	High level of air permeability
Easy home wash	Easy home wash
Volume increase after wash	Windproof & Water resistance
Warm even when damp	
High rate of water-vapor transmission	

High rate of water-vapor transmission

Improved longevity of finished goods

Down cluster free and improvement in warmth





* Existing sources and quality of down feather can be used

CONSTRUCTION GUIDELINES

iDown™ Technology consists of HEAT-MX™ products designed and engineered with HEAT-MX™ proprietary technologies. Air pressure from down/feather blowing machine must not create the reconstruction of the fiber structures of the iDown™ products. Product grades of iDown[™] may differ based on the construction methods of the types of finished goods. Please consult with your sales representative for specific instructions of iDown[™] product grades as well as DOs and DON'Ts of applying iDown[™] into your products. Manufacturing methods as well as product grades of iDown™ proposed by HEAT-MX™ are to be strictly adhered to and incorporated in the cut-and-sew manufacturing processes. Licensing agreement may be required to use the iDown™ Technology. Please contact your sales representative for more details. Avoid high temperature or high pressure to attain optimum performance.

CARE INSTRUCTIONS

Consumer products made with the iDown[™] Technology are to be washed at home with commercially available home laundry detergents. Avoid dry cleaning unless the washing label indicates otherwise. Ensure sufficient drying time in low-temp tumble dry setting for drying moisture inside the goods. Avoid keeping the goods in areas with high humidity.





Technical Data Sheet



Date issued: 2022 02 21



Technical Data Sheet

Toyt

Selection

ISPO Top of Innovation Award

Largest Energy Saving Technology in Global Textile Industry

Breakthrough Innovations in Thermal Insulation

Date issued: 2022 02 21



* Product Usage Guidelines are based on entire area applications of HEAT-MX[™] products unless otherwise expressed as per Footwear examples, but may vary depending on specific applications. Contact your sales representative for the approval in case of exceptions from the application methods indicated in this document.

Disclaimer: All marketing assets including, not limited to, hang tags, labels, catalog, sample card, technical data sheet, etc., may change without notice. Marketing claims made towards consumers by the customers of HEAT-MX[™] products and technologies are not responsibility of HEAT-MX[™] Company. Any marketing claims to be made by other parties in association with HEAT-MX[™] products and technologies must be approved by HEAT-MX[™] Company. The HEAT-MX[™] Company shall be neither liable nor responsible for any consequences associated with any and all changes of the marketing claims, assets, etc.

WARRANTY CLAUSES: In the event any HEAT-MX[™] product is found to be defective in material, workmanship or not in conformance with any express warranty for a specific purpose, the only obligation of the HEAT-MX[™] Company and your exclusive remedy shall be to repair, replace or refund the purchase price of such parts or products upon timely notification thereof and substantiation that the product has been stored, maintained and used in accordance with the instructions of the HEAT-MX[™] Company. EXCLUSIONS TO WARRANTY: THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OR CONDITION OF QUALITY, EXCEPT OF TITLE AND AGAINST PATENT INFRINGEMENT. LIMITATION OF LIABILITY: Except as provided above, the HEAT-MX[™] Company shall not be liable or responsible for any loss or damage, whether direct, indirect, incidental, special or consequential, arising out of the sale, use or misuse of HEAT-MX[™] products or the user's inability to use such products. THE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE. The general terms and conditions of the HEAT-MX[™] Company also apply to the sale of this product. The HEAT-MX[™] Company may change the product, specifications and availability of the product as improvements are made: therefore, user should contact the HEAT-MX[™] Company for latest information before specifying the product. All HEAT-MX[™] products are produced within strict dimensional and weight tolerance specifications. However, changes in environment and other factors may cause the final dimensions and/or bag weights to shift, shrink, or otherwise change up to a maximum of ±4% during handling or shipment. Please allow products to recover 24 hours after vacuum pack is removed.

Document code: TDS-IDN-1-22-10, Replaces all documents of the same product(s) published for the same purposes, prior to the Date Issued specified in this paper.

www.heat-mx.com