

Novel fit materials by human temperature



HUMOFIT®



HUMOFIT® is a trademark or registered trademark of Mitsui chemical.

HUMOFIT® detects human body temperature and gently wraps around the body that touched it.

■ HUMOFIT® feature

- HUMOFIT® is temperature dependent. It is a new material that becomes flexible when heated.
- HUMOFIT® can be shaped to fit the body with a person's body temperature, or heated up and folded compactly for easy transportation.
- HUMOFIT® is a new material that can be bent, folded, and stretched without force.
- HUMOFIT® is hard at first and stretches slowly, but slowly returns to its original shape like felt.

■ Processing size

Item	Thickness (mm)	Shape	Width (mm)	Length (m)	Remarks
F10	0.50	Foamed ($\rho=0.5$)	50	1	<ul style="list-style-type: none"> • Provided with a release film. • A4 size is available as well.
F20	0.35		~	~	
A11	0.40	Unfoamed ($\rho=0.84$)	1,200	30	<ul style="list-style-type: none"> • Available for special processing such as drilling and laminating with knit fabrics, etc.

Fuji Chemi Trading Co., Ltd. provides this very unique product in retail sales.

After confirming payment, we will check the stock availability and inform you of the delivery date shortly.

Please contact the following for inquiries regarding purchase requests, quotations, special processing, etc.

<https://www.ftcj.co.jp/contact/>



HUMOFIT®

Available for retail sale

Applications expected to be put into practical use



Cap



Shoes



Insole



Belt



Watch belt



Goggles



Pillow



Headphones



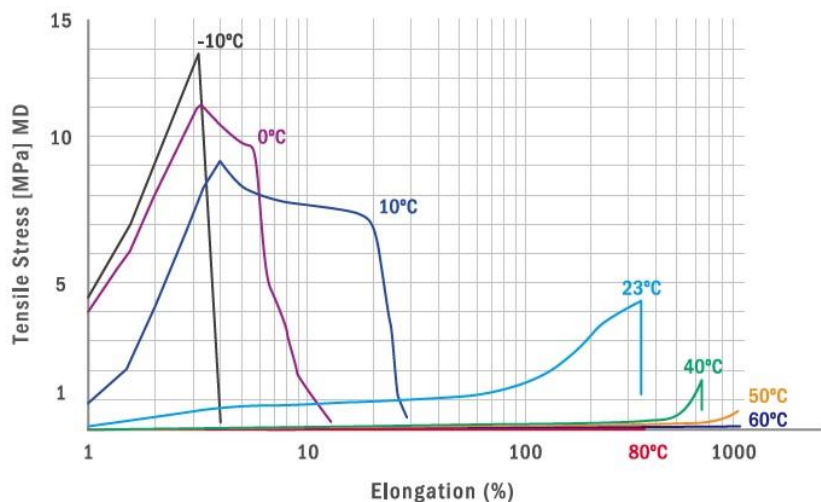
Assembled toys

List of representative physical characteristics of HUMOFIT® F10

Item	Unit	Physical Properties	Measurement method	Measuring conditions
Sheet Thickness	23°C	0.5	Mitsui Chemicals method	23°C
Sheet weight size	g/m ²	250		23°C
Tensile breaking load TD(Sheet width direction)	N/25mm	65		23°C
Thermal properties	Glass Transition(Tg)	°C	Mitsui Chemicals method (Individual viscoelasticity)	4°C/min
		28		

*The above values are measured values, not standard values.

Temperature Dependence Graph



*Test specimen size = strip, thickness = 1.0 mm, width = 15 mm, distance between chucks = 30 mm, tensile speed = 1000%/min, elongation at break > 900% indicates elongation at break.

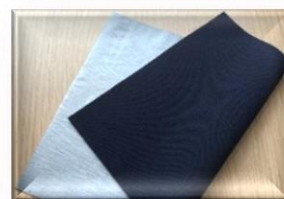
<Processing example>



Drilling



Flocking



Lamination process