





WAKANDA PROJECT				WAKANDA-X	Certification
STEP 1 🕨	STEP 2 🕨	STEP 3 🕨	STEP 4 🕨	STEP 5 🕨	Component - Plastics Guide Information
Front		Test Summary Million Section Sectio	Test NO : 1 Temp : 23°C Humidity : 50 %RH Start Date / Time : 2023-06-13 17:00 End Date / Time : 2023-06-21 16:00 Equipment NO : 172038 Test Item : 7-days Temp : 70°C Start Date / Time : 2023-06-13 17:00 End Date / Time : 2023-06-13 17:00 End Date / Time : 2023-06-20 17:00 Equipment NO : 124042	TARGET: UL2596 DATE: 23, 12	FNB 16-65 Muneondong-Gill, Hivaseong Gyeonggi-do 19623 H SM23-P01 Polyurethane (PUR) 'TKF-FOAM', furnished as finish Color Mint This Flamm Color Mint This Glass NC 40 V0 13.0 V0 Comparative Tracking Index (CTI); Dielectric Strength (V/Tmr); High-Voltage Arc Tracking Rick (V/TR); Dimensional Change (%); ANSMUL 96 walkacele text data deer of perfect to building mete- networks used in the components and perfect Report Date: 2023-06-19 Last Revised. 2023-06-19
		Image: Section 2000 Description 4000 Description 4000 Description 40000 Description 400000 Description 400000 Description 400000 Description 400000 Description 4000000 Description 400000000000 Description 400	Test NO : 1 Temp : 23°C Humidity : 15 %RH Start Date / Time : 2023-06-20 17:01 End Date / Time : 2023-06-21 16:00		Patent
Back		Test Surmay 1 Test Surmay 1 <	End Date / Time : 2023-06-21 10:00 Equipment NO : 45516 500% (12580 VERTICLE FLACES TEST: 5%, 5%, (FLAGUE SPECIDERE) [4] WH for 66.000-630; Section 9 [1] am silet ser a, insed 2000-80 [2] am silet ser a, insed 2000-80 [3] 12,473 [4] [1] 12 (1] 1		Bit
1,000°C or higher, Heat the product with a torch for 3 minutes at 70mm intervals and measure the temperature on the opposite 	44733543 단지 C: 유럽 간접: 월(점) 단지 6 종료 직후 연소 중건 연료통과 시험용 사이에 스크린용 놓고 급 소원 취업에 주기로 60도 동안 노동안덕 제작자 요청 시 단지 C 대단 1개 88 60도 더 실시할 수 있다.	Evaluate the combustion pattern of the product and the degree of flame propagation to the surrounding area when the flame is applied in the vertical direction of the plastic product	Evaluating the residual salt time and flame propagation pattern of the specimen, assuming that a large flame is generated	To evaluate the thermal and mechanical performance of the battery casing in response to stress caused by thermal runaway of the lithium-ion battery used in EVs, it is planned to be carried out using the UL2596 test method	R&D Very and Very an

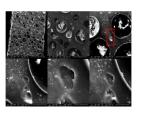
n [UL94 V0/5VA]





Material injection





FIRE



A construction-material scale product



- ✓ A construction-material scale product that can establish a fire-resistant filling system in the wiring, piping, ducts, walls, floors, or ceilings.
- V Available in various forms, such as fibers, sheets, fabrics, and panels, allowing for efficient utilization in the required sections.



Tiles for room-scale



- ✓ Tiles for room-scale that can be used for interior and exterior applications, suitable for hospitals, homes, and storage of valuable items.
- ✓ Various finishes can be utilized through surface treatments and film attachment.



For battery and beyond(customizing)

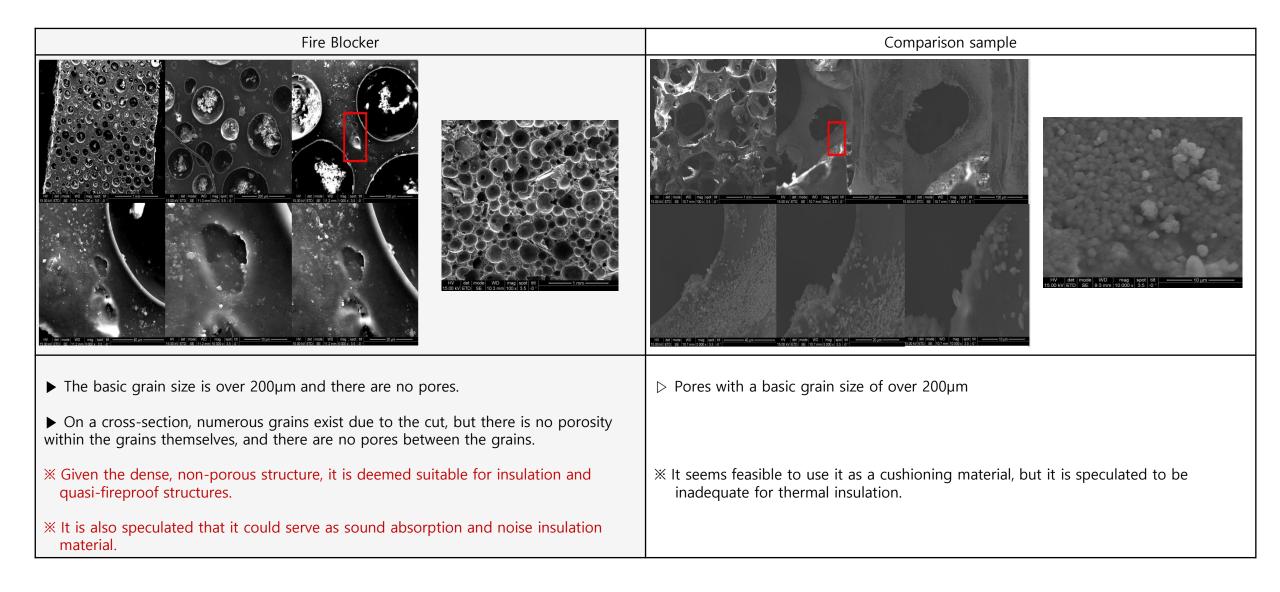


- ✓ By using Foam molding technology, the product's shape can be designed freely.
- ✓ This flexibility in shaping allows for its application in a wide range of fields, and it can be used in all areas with fire risks, such as batteries.





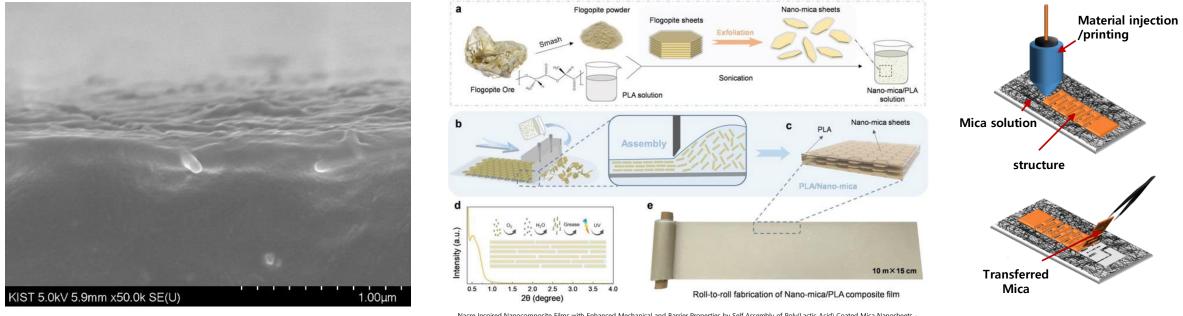
R&D/MOU - Analysis (HARUTECH, KIST)







▶ R&D/MOU - (HARUTECH, KIST)



Nacre-Inspired Nanocomposite Films with Enhanced Mechanical and Barrier Properties by Self-Assembly of Poly(Lactic Acid) Coated Mica Nanosheets Scientific Figure on ResearchGate. Available from: https://www.researchgate.net/figure/Fabrication-of-the-nacre-inspired-Nano-mica-PLAnanocomposite-film-a-The-exfoliation_fig1_360755933 [accessed 27 Oct, 2023]

- Research and development are in progress to incorporate fire detection sensor capabilities into materials by transferring nano-materials.
- ✓ Research and development are underway to enhance the thermal insulation properties of materials through the transfer of mica.