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| *Company Name* | *ZOTEFOAMS ENGLAND* |  |
| Technology | PE, PEBA, PVDF, Nylon, TPE, HDPE Foams Extrusion lines and foaming lines |  |
| Technology data parameters &  Current Status | Producing PE foams with Peroxide system, crosslinked in an oven after extruding the material, 70% of the materials are black foams.  Other polymers are usually not black.  After extruding and crosslinking the slabs, it goes to a pressure tank were they apply high pressure Nitrogen to the slabs. Slabs are growing in diameter by 10%. Then they cool down and go again the same process. Next station goes on a bigger tray in a larger pressure chamber re heat and applying lower pressure, the slabs are growing to final measure.  After that the foams are going to different processes like slitting, bonding etc.  We sent Zotefoams Crossitol MB, they applied it in their product, cured it in a UV oven the purchased, for 2-10 min. received good result after 6 minutes. Very happy with that.  They have received an EMA MB with 20% Crrositol, they need to check it with other polymers.  Current line speed is 10 mm/Min. |  |
| Barriers | Checking with additional polymers with EMA MB.  Receiving approval from customers for the new foam.  Testing UV penetration up to 250 mm. |  |
| Incentive | Make better product with less logistics, they send their slabs to Germany for EB crosslink.  Looking for either an offline system or an inline system. (offline mor expensive but only one for several lines. Inline less expansive but more systems dedicated to that line only) |  |
| Qualitative Target | 1. Prepare a test program with Zotefoams. 2. Dave will send a price indication for inline system. 3. Receive from Paul samples of material to make MB. 4. Send materials back to Zotefoams to prepare Slabs 10 mm thick. 5. Send plates to GEW to irradiate. 6. Sent cured plates back to Zotefoams for tests. 7. N3Cure will check with Kafrit if they prefer PVDF in a powder form or plate form, to make a MB. 8. Supply Zotefoams with the reach declaration. | July  July  July  August  August  August  July  July |
| Quantitative Target |  |  |
| Functionality | 1. Impact and heat resistance. 2. Nyke test |  |
| Success Factors | 1. same crosslinked material like in EB. |  |
| Start date  End date | 02-2024 Yoram Shai and Ofir  12-2024 |  |
| *Test Plan* | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **Layer 3** | **Layer 2** | **Layer 1** |  | |  |  |  | Various | **Material** | |  |  |  | Up to 25 mm | **Thickness** | |  | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | | **Crossitol, %** | |  | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | | **Promoter Y/N, %** | |  |  |  |  |  | |  |
| *Resources* | |  |  |  |  | | --- | --- | --- | --- | | **Materials** | **Kg** | **Cost** |  | | 1. |  |  |  | | 2. |  |  |  | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | | **Labs** | **Cost** |  |  | | 1. |  |  |  | | 2. |  |  |  | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | | **Tests** | **Cost** |  |  | | 1. |  |  |  | | 2. |  |  |  | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | | **xxx** | **Cost** |  |  | | 1. |  |  |  | | 2. |  |  |  | |  |  |  |  | |  |
| *Tests* | |  |  |  |  | | --- | --- | --- | --- | | 1. TENSAIL TEST |  |  |  | | 1. DSC |  |  |  | | 1. FTIR |  |  |  | | 1. MFI |  |  |  | |  |
| *Results* |  |  |
| *Conclusions* |  |  |
| *Optional:*  *Phase 2* | Optimization for a specific product |  |