

Why Kynar[®] PVDF for Separator Coating?

KEY ADVANTAGES OF PVDF-COATED SEPARATORS ARE:

- **Improved cell manufacturing** thanks to better separator - electrode interfacial bonding
- **Improved cycling performances** thanks to reduced cell deformation (no interfacial debonding) and better electrolyte wettability vs polyolefin
- **Improved safety** when combined with ceramics thanks to better thermal dimensional stability

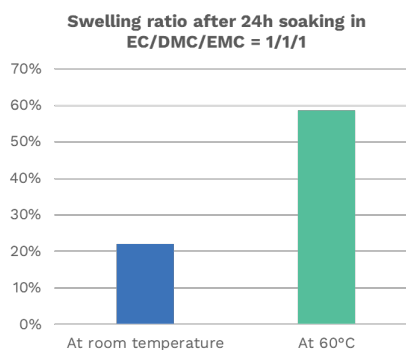
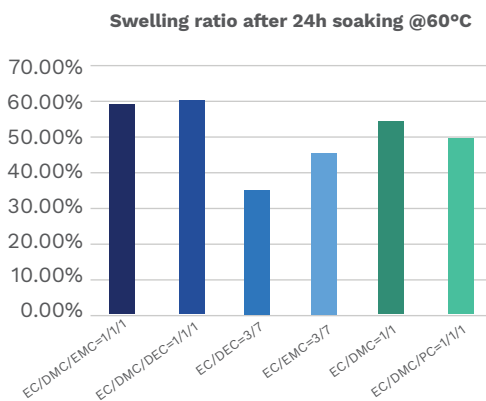
ARKEMA IS THE WORLDWIDE LEADER FOR PVDF-BASED SEPARATOR COATING SOLUTIONS WITH WIDE PORTFOLIO TO FINE-TUNE THE BALANCE OF PROPERTIES:

phase separation electrolyte wettability
optimized swelling in electrolyte processability
ionic conductivity adhesion to electrode (dry and wet)
 nanoceramic compatibility high dimensional stability gurley value
high voltage stability permeability

KynarFlex[®] LBG range for both solvent & aqueous processes :

- KynarFlex[®] LBG (fine powder) = the market reference worldwide
- KynarFlex[®] LBG2200LX (latex) = the aqueous version of LBG
- KynarFlex[®] LBG8200 (fine powder) = the functionalized grade for improved dry adhesion

KynarFlex[®] LBG grades have **controlled swelling behavior in electrolytes even under harsh conditions**, to combine durability and good ionic conductivity.



Swelling ratio measured by volume gain after soaking a film of KynarFlex[®] LBG

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