

# Overview: High Temperature (“DuPont Method”) Synthesis vs. OXPEKK<sup>®</sup>-LTS (Low Temperature Synthesis)

## High Temperature Synthesis (‘DuPont Method’)

- Traditional Approach (originally developed & patented by DuPont):
  - High temperature batch synthesis
  - Currently in production by Arkema, Solvay, Gharda
  - Off-patent
- Good product, but room for improvement to yield new market opportunities
  - Variability in MW/MWD
  - Reduced stability due to side reactions and residues
  - Difficult to remove residues from product
  - Flake form difficult to manage

## OXPEKK<sup>®</sup>-LTS (Low Temperature Synthesis)

- New Process
- The Improvements:
  - Best in class stability & repeatability
  - Residues completely removed from product
  - Dense, size controlled spherical powder or flake
- Patented (and suitable for additional copolymer systems)