



My name is Geert Vanden Poel, I am currently working as Global Product Developer at DSM Engineering Plastics, Geleen. My role consists of global coordination of product development in the department for Performance Polymers which consists of PA6, PA66 and PBT in mainly Automotive, Electrical & Electronic, Film & Fiber industry. Previously I was active as Senior Scientist at DSM Resolve Morphology Group within the Thermal Analysis Department at R&D, Geleen, the Netherlands.

From educational point of view I have a Master in Science at the department of Chemistry with the option Polymer Chemistry at the Catholic University of Leuven. I continued my scientific work at the Catholic University of Leuven performing a Ph. D. Research in the “Laboratory for Macromolecular Structural Chemistry, Division of Molecular and Nanomaterials” with as subject: “Crystallisable thermoplastic/thermosetting polymer blends”. After my Ph. D. I performed a Postdoctoral Research at DSM Research, Performance Materials and the Catholic University of Leuven within the framework of a EC-Marie Curie Industry Host Fellowship with as subject: “Fast Scanning Calorimetry and its industrial relevance”.

# Top publications:

- Vincent B.F. Mathot, Geert Vanden Poel, Thijs F.J. Pijpers, Benefits and potentials of High Performance Differential Scanning Calorimetry (HPer DSC). In: The handbook of thermal analysis & calorimetry. Volume 5: Further advances, techniques and applications, Brown, Ed., Elsevier (2008) Chapter 8, pp 269-298. DOI: 10.1016/S1573-4374(08)80011-8
- DIN Specification 91127 (2011): Recommendation for Temperature Calibration of Fast Scanning Calorimeters (FSCs) for Sample Mass and Scan Rate, G. Vanden Poel, A. Sargsyan, V. Mathot, Guy Van Assche, A. Wurm, C. Schick, A. Krumme, D. Zhou. Berlin, Publisher: Beuth Verlag GmbH
- Geert Vanden Poel, Vincent B.F. Mathot, High-speed/high performance differential scanning calorimetry (HPer DSC): Temperature calibration in the heating and cooling mode and minimization of thermal lag, *Thermochimica Acta*, 446 (2006) 41. DOI: 10.1016/j.tca.2006.02.022
- Vincent Mathot, Marek Pyda, Thijs Pijpers, Geert Vanden Poel, Ernst van de Kerkhof, Sander van Herwaarden, Floor van Herwaarden, Archi Leenaers, The Flash DSC 1, a power compensation twin-type, chip-based fast scanning calorimeter (FSC): First findings on polymers, Special Issue Interplay between Nucleation, Crystallization, and the Glass Transition, *Thermochimica Acta*, 522(1-2) (2011) 36-45, DOI: 10.1016/j.tca.2011.02.031.
- Microfocus wide-angle X-ray scattering of polymers crystallized in a fast scanning chip calorimeter; Martin van Drongelen, Tamara Meijer-Vissers, Dario Cavallo, Giuseppe Portale, Geert Vanden Poel, René Androsch, *Thermochimica Acta* 563 (2013) 33– 37
- Geert Vanden Poel, Daniel Istrate, and Vincent Mathot, Full-Temperature-Range Crystallization Rates of Polyamides by Fast Scanning Calorimetry as Key to Processing. In: Book Fast Scanning Calorimetry. Edition 1; Ed., Springer International Publishing (2016) Chapter 18, pp 611-633. DOI: 10.1007/978-3-319-31329-0.