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Given a graph G , the number of nowhere-zero \mathbb{Z}_q -flows $\phi_G(q)$ is known to be a polynomial in q . In this talk, we extend the definition of nowhere-zero \mathbb{Z}_q -flows to simplicial complexes Δ of dimension greater than one, and prove the polynomiality of the corresponding function $\phi_\Delta(q)$ for certain q and certain subclasses of simplicial complexes. (Received January 11, 2012)