

Abstract

Spherical polyester particles which can be crosslinked if desired at low temperatures, process for their preparation, and their use for powder coatings

The invention relates to spherical transparent polyester particles having a mean particle size $< 50 \mu\text{m}$ and a monomodal particle size distribution having a span $(d_{90}-d_{10}/d_{50}) < 2.5$ which can be melted to form a continuous coating at temperatures $< 200^{\circ}\text{C}$, to a process for their preparation and to their use for powder coatings.

In a preferred embodiment the particles comprise units of formulae (1) and (2)



(1)



(2)

where

X is a substituted or unsubstituted C_6 to C_{14} -aromatic radical or an alkylene, polymethylene, cycloalkane or dimethylenecycloalkane group or a straight-chain or branched, saturated or unsaturated alkanediyl group and

D is an alkylene, polymethylene, cycloalkane or dimethylenecycloalkane group or a straight-chain or branched, saturated or unsaturated alkanediyl group.