

Advanced Engineering Plastics in High-Tech applications –material selection guidelines

Tuesday 16 June 2015 14:30 (30 minutes)

High tech applications mostly demand high-tech materials. As engineering plastics have evolved over time, they have become a great alternative to traditional materials such as metals in many applications. However each polymer has its specific advantages & limitations, and the use of fillers can even more influence the specific properties. During this presentation, I would like to provide technical-oriented & straightforward steps in the material selection of Advanced Engineering Plastics. Topics covered are wear resistance, temperature effects, dimensional stability, X-ray radiation transparency, radiation resistance (UV & Gamma), radiation shielding (neutrons only), outgassing in high vacuum, ESD properties, bonding and machine-ability / possible tolerances.

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