

## Material Selection For Thermoplastic Parts Practical And Advanced Information

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Material Selection For Thermoplastic Parts  
Designers must know that thermoplastics are viscoelastic materials with low modulus, high coefficient of thermal expansion (CTLE—coefficient of thermal linear expansion) and are more or less sensitive to ingredient release, water and moisture uptake. Shrinkage and warpage can affect size and shape of finished parts.

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Material Selection for Thermoplastic Parts. Plastics ...  
Common commodity grades are Polypropylene (PP), un-expanded Polystyrene (PS) and Polyethylene (PE, also known as polythene). These grades are ideal for mass produced price sensitive products, (lower cost per kilo) are easily processed and can be readily recycled.

Material Selection - Plastic Part Manufacturing | LVS SPP  
The following list shows which materials have been used the most in the projects that LVS has been involved with over last five years. • Acetal – Homopolymer and Copolymer. • Nylons – Many grades of glass filled and unfilled. • Polyolefins – Low density, High density, Polypropylenes. • Polystyrenes – including ABS.

Materials used for Plastic Injection Moulding Parts | LVS SPP  
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Helps engineers to implement a systematic approach to material selection in their work. Includes more than 300 subfamilies of thermoplastic, and a wide range of properties including chemical resistance, thermal degradation, creep and UV resistance. Evaluates cost/performance relations and environmental considerations.

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Boeing (NYSE: BA) has qualified the Antero 800NA thermoplastic to its repertoire of 3D printing capabilities, Strataysys Ltd. (NASDAQ: SSYS) announced today. The qualification means the high-temperature material can now be used on flight parts for Boeing planes.

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