

ABSTRACT

**PROCESS FOR THE MANUFACTURE OF A COMPOSITION  
COMPRISING A VINYLAROMATIC POLYMER AND A RUBBER**

The present invention relates to a process  
5 for the manufacture of a composition comprising a  
vinylaromatic polymer and a rubber, which process  
comprises a polymerization stage in the presence of at  
least one vinylaromatic monomer and at least one  
rubber, there being a stable free radical present  
10 during the polymerization stage. The presence of a  
stable free radical in the polymerization mixture makes  
it possible to increase the melt index and to influence  
the size of the rubber nodules in the final composition  
by generally increasing the fraction, by volume, of  
15 rubbery phase and by widening the distribution of the  
size of these nodules. This is reflected by an  
improvement both in the melt index and in the impact  
strength of the final composition, which makes the  
latter an ideal composition for injection moulding.