

SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution) Coimbatore – 35



Polypropylene is obtained by the polymerization of propylene in the presence of Ziegler-Natta catalyst (-AlR₃-AlCl₃)

n H CH₃
$$\begin{bmatrix} H & CH_3 \\ | & | \\ C & C \\ | & | \\ H & H \end{bmatrix}$$
Propene Poly(propene)

Properties

- 1. Poly propylene is stereo regular (isotoctic) and highly crystalline polymer
- 2. it has better hardness, strength, stiffness than polyethylene
- 3. It is more resistant than polyethylene

Uses

- 1. Propylene is used in making molded parts and fibres
- 2. Its fibres are used in making ropes, carpets, furniture, handbags etc
- 3. It is also used for making water pipes, washing machine parts, sterilizable hospital equipments etc

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