Indian Standard IS 17658 : 2021
Polyvinyl Chloride (PVC) Homopolymers — Specification

PVC Suspension Resin, **PVC-SR** : The PVC resin produced by suspension polymerization is the type most used in most applications which requires in plastic forms, such as pipes, fittings, and films.

PVC Paste Resin, **PVC-PR** : This is the PVC resin type produced by emulsion polymerization and is mainly used to make coatings and floor coverings, artificial leather, and other flexible products.

The importance of these **PVC resins** in the production of consumer products that come into contact with food, water, and drugs is huge, with high quality and safety standards to protect the consumers

The key quality parameters as specified as per IS 17658 : 2021 are: Residual Vinyl Chloride Monomer (VCM) be less than **2 ppm** safe to use with water, food, and medicines. Resin absorbs plasticizers. It gives flexibility to the end product. Apparent Density is an indication that the processing shall be effective and should range between 0.35 and 0.63 g/ml depending on the grade. Volatile Matter As low as possible, preferably <0.3% to meet quality requirements. The particle should be uniform in size, hence the processing of each stage should become smooth, but it should not compromise good final products.

IS 17658 certification guarantees that the PVC homopolymers you purchase meet stringent safety and quality standards, ensuring reliable and safe use.