



# 57GER01

## POLYVINYL CHLORIDE SUSPENSION HOMOPOLYMER FOR CALENDERING, BLOW MOULDING & INJECTION MOULDING

57GER01 is a suspension type PVC resin specially recommended for blow moulding / stretch blow moulding of bottles, and calendaring of sheets. The grade's combination of low molecular weight and high melt flow makes it suitable for easy processing of calendered, blow moulded and injection moulded items. Its low fish eye / low dark resin count make it suitable for transparent applications and the uniform coarseness of its grains result in easy bulk handling / optimum requirement of lubricant / more uniform fluxing in the barrel.

| Typical Characteristics     |                      |       |                |
|-----------------------------|----------------------|-------|----------------|
| Properties                  | Test Method          | Unit  | Typical Value* |
| K-value                     | @1% in cyclohexanone | -     | 57             |
| Inherent Viscosity          | ASTM D1243           | -     | 0.68           |
| Apparent Bulk Density       | ASTM D1895           | g/ml  | 0.48 - 0.55    |
| Flowtime                    | ASTM D1895           | secs  | 25 max         |
| Heat Loss                   | ASTM D3030           | % max | 0.3            |
| Particle Size Distribution  | ASTM D1921           |       |                |
| - Retention on ASTM 40 mesh |                      | % max | 0.1            |
| - Retention on ASTM 60 mesh |                      | % max | 2              |
| - Through ASTM 140 mesh     |                      | % max | 40             |
| Porosity (DOP)              | ASTM D3367           | ml/g  | 0.22 – 0.34    |
| Dark Resin                  | For 100 g resin      | count | 4 max          |
| Fish Eye                    | Blown Film Method    | count | 10 max         |
| Residual VCM                | ASTM D3749           | ppm   | <2             |

\*Typical values not to be considered as specifications

### Applications

- Calendaring - Rigid films / sheet for blister packaging, cooling tower frills
- Blow Moulding - Bottles and containers for cosmetic, mineral water, edible oil, shampoo and display jars
- Injection Moulding - Pipe fittings, handles
- Foam board

### Regulatory Information

- Meets the requirements stipulated in IS 10151, on PVC and its Copolymers for its safe use in contact with foodstuff, pharmaceuticals and drinking water
- Does not contain any auxillary items like stabiliser, lubricant, etc. It also conforms to the positive list of constituents as presented in IS 10148

### Storage Recommendations

- Bags should be stored in dry conditions at temperatures below 50°C and protected from UV / direct sunlight.