# 57GMR01

## POLYVINYL CHLORIDE
### SUSPENSION HOMOPOLYMER
### FOR INJECTION MOULDING & SHEET EXTRUSION

57GMR01 is a low molecular weight suspension type PVC resin suitable for rigid injection moulding and rigid sheet extrusion applications. It is specially recommended for injection moulding of pipe fittings and calendering of opaque sheets. Its combination of low molecular weight with high melt flow makes it suitable for easy processing in injection moulded items. Uniform coarseness of the grains of this resin results in easy bulk handling, minimum requirement of lubricant and 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 | 50 |
| Porosity (DOP) | ASTM D3367 | ml/g | 0.22 – 0.34 |
| Residual VCM | ASTM D3749 | ppm | <2 |

*Typical values not to be considered as specifications

### Applications

- Cooling tower frills, Rigid sheet extrusion
- 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.

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