



# 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 – 0.54
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
Retention on 30 mesh	For 25 kg resin	% max	0.005
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 auxiliary 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.

Reliance Industries Limited, Product - Application & Technology Group, PRTC,  
Swastik Mill Compound, V. N. Purav Marg, Chembur, Mumbai-400 071. Tel.: +91-22-6767 7000. E-mail: polymer\_patsupport@ril.com Website: www.ril.com

• The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or otherwise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. • The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorised agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.