

Producer: Georgia Gulf / The United States (USA)

## PVC - 1091

**Description:**

**PVC - 1091** is a medium molecular weight, general purpose, vinyl suspension resin designed for pipe, siding, window lineals and other general rigid extrusion applications where consistent particle size distribution, and low contamination and residual VCM levels are important. This resin has good color and thermal stability.

**PVC - 1091** is listed in PPI's Technical Report, "*Policies and Procedures for Developing Recommended Hydrostatic Design Stresses for Thermoplastic Pipe Materials*" (TR-3/92), under part Y, "*PVC Range Composition Exempted from Stress-Rupture Data Requirements for Listing at 73 °F (23.0 °C)*" as GG 1091. PVC-1091 also meets the requirements under part S, "*Substitution of Resin In Polyvinyl Chloride (PVC) Plastic Pipe Formulations*".

PROPERTIES	METHODS	VALUE
ASTM Cell Classification	ASTM D 1755	GP3-16440
Inherent Viscosity	ASTM D 1243	0.90 ± 0.02
Relative Viscosity		2.13
K' value	DIN 53726	65
Bulk Density, lbs/ft <sup>3</sup> gms/cm <sup>3</sup>	ASTM D 1895	33.0 min. 0.529 min.
Percent Volatiles	GGC 02-05-00	0.35 max.
Residual Vinyl Chloride monomer, ppm	ASTM D 3749	2.0 max.
Hunterlab color, 'L'	GGC 02-25-00	95.5 min.
'a'		0.20 max.
'b'		1.75 max.
Slurry Contamination, particles/100 gms	GGC 02-21-00	20 max. (siding grade) 10 max. (pipe grade)
Particle Size Distribution	ASTM D 1921	
percent retained on    40 mesh	method A	0 max.
60 mesh		9 max.
200 mesh		13. max.
Pan		5 max.