

# Axial PVC LR-5009

Rigid Polyvinyl Chloride

Axial Corporation

## Message:

Georgia Gulf LR-5009 is an economical high flow rigid PVC fittings compound designed for multi-cavity molds and large diameter fittings. This compound is characterized by excellent process ability, which includes color hold, regrind stability, and surface appearance. LR-5009 is NSF listed under Standard 14/61 for both potable water and DWV applications.

General Information			
UL YellowCard	E53006-532379		
Features	Good Color Stability		
	Good Processability		
	Good Surface Finish		
	High Flow		
Uses	Fittings		
Agency Ratings	NSF 14		
	NSF 61		
UL File Number	E53006		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
PVC Cell Classification	12454-B		ASTM D1784
Flow Ratio <sup>1</sup>	170		
Gardner Impact <sup>2</sup> (23°C)	36.2	J	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength	50.5	MPa	ASTM D638
Flexural Modulus	2980	MPa	ASTM D790
Flexural Strength	88.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.18 mm	32	J/m	
23°C, 3.18 mm	64	J/m	
Drop Impact Resistance <sup>3</sup> (23°C)	116	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	76.0	°C	
1.8 MPa, Unannealed	72.0	°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index	38	%	ASTM D2863
NOTE			
1.	Distance/Wall Thickness, 390 to 400°F		
2.	1/2 in R Tup		
3.	0.5 in Dart		

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