

ProTherm® 4526

Chlorinated Polyvinyl Chloride

Axial Corporation

Message:

Georgia Gulf ProTherm® 4526 CPVC is a pelletized injection molding compound designed for fittings. Typical applications are in potable water and chemical transfer systems especially where high resistance and/or elevated temperatures exist. 4526 has excellent processability, including thermal stability, flow, and surface appearance. ProTherm® 4526 is listed under NSF Standard 14 and Standard 61 and meets or exceeds ASTM D1784 cell class 23447-B requirements.

General Information			
UL YellowCard	E53006-243298		
Features	Workability, good		
	Good liquidity		
	Thermal stability, good		
	Excellent appearance		
Uses	Accessories		
Agency Ratings	ASTM D 1784		
	NSF 14		
	NSF 61		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 - 0.70	%	ASTM D955
PVC Cell Classification	23447-B		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3410	MPa	ASTM D638
Tensile Strength	55.2	MPa	ASTM D638
Flexural Modulus	2790	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	130	J/m	ASTM D256
Dart Drop Impact (23°C)	20.3	J	ASTM D3029
Drop Impact Resistance (23°C)	62.3	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, annealed	106	°C	ASTM D648

1.8 MPa, annealed	101	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	44	%	ASTM D2863
Additional Information			

Flow Ratio, Flow Distance/Wall Thickness, Georgia Gulf Test, 410-425°F: 110

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