

ProTherm® 4345

Chlorinated Polyvinyl Chloride

Axial Corporation

Message:

Georgia Gulf ProTherm® 4345 is a CPVC powder blend designed for extrusion applications requiring high heat deflection temperatures. Processing and stability along with overall physical properties are excellent.

General Information			
UL YellowCard	E53006-243297		
Features	Workability, good		
	Good processing stability		
Forms	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength (Yield)	51.7	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	2620	MPa	ASTM D790
Flexural Strength	94.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	370	J/m	ASTM D256
23°C, 6.35 mm	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	105	°C	ASTM D648
0.45 MPa, annealed	110	°C	ASTM D648
1.8 MPa, not annealed	101	°C	ASTM D648
1.8 MPa, annealed	105	°C	ASTM D648
CLTE - Flow	5.8E-5	cm/cm/°C	ASTM D696
Additional Information			

Brabender Data:Fusion Time, ASTM D2538: 1.7 minFusion Temperature, ASTM D2538: 199°Fusion Torque, ASTM D2538: 3900 m-gTotal Dynamic Thermal Stability, ASTM D2538: 20.0 minMinimum Torque, ASTM D2538: 2500 m-gLine-Out Temperature, ASTM D2538: 217°C

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