

ProTherm® 4351

Chlorinated Polyvinyl Chloride

Axial Corporation

Message:

Georgia Gulf ProTherm® 4351 is a CPVC powder blend designed for extrusion of large diameter, heavy wall industrial grade pipe requiring high heat deflection temperatures and excellent chemical resistance. Processing and stability along with overall physical properties are excellent.

General Information			
Features	Workability, good		
	Good processing stability		
	Good chemical resistance		
Uses	Industrial application		
	Piping system		
Forms	Powder		
Processing Method	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
PVC Cell Classification	23447		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2680	MPa	ASTM D638
Tensile Strength (Yield)	51.7	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	2130	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	230	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	106	°C	ASTM D648
0.45 MPa, annealed	112	°C	ASTM D648
1.8 MPa, annealed	106	°C	ASTM D648
Additional Information			

Brabender Data:Fusion Time, ASTM D2538: 2 minFusion Temperature, ASTM D2538: 208°Fusion Torque, ASTM D2538: 4000 m-gTotal Dynamic Thermal Stability, ASTM D2538: 20.0 minMinimum Torque, ASTM D2538: 2750 m-gLine-Out Temperature, ASTM D2538: 220°C

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