

Axial PVC 3121

Rigid Polyvinyl Chloride

Axial Corporation

Message:

Georgia Gulf 3121 is an exterior grade powder compound formulated for processing applications requiring high production output rate. Having excellent weatherability and impact strength, 3121 is suitable for such applications as windows, doors, decks and fencing.

General Information			
UL YellowCard	E53006-522730		
Features	Good Impact Resistance		
	Good Weather Resistance		
Uses	Outdoor Applications		
Forms	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
PVC Cell Classification	1-443-43-23		ASTM D4216
PVC Cell Classification	13343		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	111		ASTM D785
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2720	MPa	ASTM D638
Tensile Strength (Yield)	45.0	MPa	ASTM D638
Flexural Modulus	2540	MPa	ASTM D790
Flexural Strength	76.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	1100	J/m	
23°C, 6.35 mm	230	J/m	
Tensile Impact Strength	210	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	69.0	°C	ASTM D648
CLTE - Flow	6.3E-5	cm/cm/°C	ASTM D696

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