

Vandar® 2122

Polybutylene Terephthalate

Celanese Corporation

Message:

Vandar 2122 is a polyester alloy which contains 10% mineral filler. It offers exceptional toughness and practical impact strength. This resin offers Class A paintable finish with excellent dimensional stability.

General Information			
Filler / Reinforcement	Mineral filler, 10% filler by weight		
Features	Good dimensional stability		
	Impact resistance, good		
	Sprayable		
	Good toughness		
RoHS Compliance	Contact manufacturer		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	1.3 - 1.5	%	ASTM D955
Vertical flow direction	1.3 - 1.5	%	ISO 294-4
Flow direction	1.3 - 1.5	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	104		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	44.1	MPa	ASTM D638
50% strain	30.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Fracture, 23°C	80	%	ASTM D638
Fracture	> 50	%	ISO 527-2/1A/50
Flexural Modulus (23°C)	1900	MPa	ISO 178
Flexural Stress (23°C)	55.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	15	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	128	°C	ISO 75-2/B
0.45 MPa, annealed	132	°C	ASTM D648
1.8 MPa, not annealed	48.9	°C	ASTM D648

1.8 MPa, not annealed	53.0	°C	ISO 75-2/A
Melting Temperature ¹	225	°C	ISO 11357-3, ASTM D3418
Injection	Nominal Value	Unit	
Drying Temperature	120 - 130	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Max Regrind	25	%	
Hopper Temperature	20.0 - 50.0	°C	
Rear Temperature	230 - 240	°C	
Middle Temperature	235 - 250	°C	
Front Temperature	235 - 250	°C	
Nozzle Temperature	240 - 260	°C	
Processing (Melt) Temp	235 - 260	°C	
Mold Temperature	65.0 - 96.0	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.00 - 0.345	MPa	
Injection instructions			
Manifold Temperature: 250 to 260°C Zone 4 Temperature: 240 to 260°C Feed Temperature: 230 to 240°C			
NOTE			
1.	10°C/min		

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