

Celstran® PA6-GF50-03

Polyamide 6
Celanese Corporation

Message:
Nylon 6 with 50% long glass reinforcement, heat stabilized

General Information			
Filler / Reinforcement	Long glass fiber, 50% filler by weight		
Additive	heat stabilizer		
	UV stabilizer		
Features	Thermal Stability		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16400	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	215	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.6	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	15000	MPa	ISO 178
Flexural Stress (23°C)	350	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	32	kJ/m ²	ISO 179/1eA
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 80.0	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.18	%	
Hopper Temperature	70.0 - 80.0	°C	
Rear Temperature	265 - 275	°C	
Middle Temperature	270 - 275	°C	
Front Temperature	275 - 280	°C	
Nozzle Temperature	275 - 280	°C	
Processing (Melt) Temp	270 - 280	°C	
Mold Temperature	80.0 - 100	°C	
Injection instructions			

Zone 4 Temperature: 275 to 280°CFeed Temperature: 20 to 50°C

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