

Strator® C-5

polyamide 66 alloy

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America	
Filler / Reinforcement	• Long Glass Fiber, 50% Filler by Weight		
Features	• High Strength		
Forms	• Pellets		

Physical	Dry	Conditioned	Unit	Test method
Density	1.60	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test method
Tensile Modulus				ISO 527-2
23°C	17500	12500	MPa	
90°C	10500	--	MPa	
120°C	9500	--	MPa	
Tensile Stress				ISO 527-2
Break, 23°C	265	185	MPa	
Break, 90°C	160	--	MPa	
Break, 120°C	140	--	MPa	
Tensile Strain (Break)	2.2	--	%	ISO 527-2
Flexural Modulus (23°C)	15500	--	MPa	ISO 178
Flexural Stress (23°C)	400	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test method
Charpy Notched Impact Strength (23°C)	38	36	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	100	100	kJ/m ²	ISO 179

Thermal	Dry	Conditioned	Unit	Test method
Heat Deflection Temperature				
0.45 MPa, Unannealed	245	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	237	--	°C	ISO 75-2/A
CLTE - Flow	2.0E-5	--	cm/cm/°C	ISO 7991
Thermal Conductivity	0.33	--	W/m/K	ISO 22007

Electrical	Dry	Conditioned	Unit	Test method
Surface Resistivity	1.0E+12	--	ohms	ASTM D257

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Additional Information

Dry The value listed as Molding Shrinkage ISO 294-4, was tested in accordance with S.O.P. methods.

Injection	Dry Unit
Drying Temperature	80 to 100 °C
Drying Time	4.0 hr
Suggested Max Moisture	0.10 %
Rear Temperature	270 to 300 °C
Middle Temperature	270 to 300 °C
Front Temperature	285 to 310 °C
Nozzle Temperature	285 to 320 °C
Processing (Melt) Temp	< 310 °C
Mold Temperature	80 to 160 °C

Notes

Typical properties: these are not to be construed as specifications.



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