

CP PRYME® Nylon 66 NN100LZ-7

Polyamide 66
Chase Plastics Services Inc.

Message:
Prime Nylon 6/6, High Rigidity & Toughness, Lubricated, FDA Compliant, Injection Molding Grade

General Information				
Additive		Lubricant		
Features	Rigidity, high			
	High strength			
	Solvent resistance			
	Fast molding cycle			
	Good wear resistance			
	Good chemical resistance			
	Gasoline resistance			
	Oil resistance			
	Good toughness			
	Lubrication			
Good demoulding performance				
Uses	Bushing			
	Electrical housing			
	Industrial application			
	Connector			
	Cam			
	Bearing			
Agency Ratings	ASTM D 4066 PA0111			
	ASTM D 6779 PA0111			
	FDA 21 CFR 177.1500			
	FED L-P-410A			
	MIL M-20693B			
RoHS Compliance		RoHS compliance		
UL File Number		E70062		
Appearance		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183

Molding Shrinkage				ISO 294-4
Lateral flow: 23°C, 2.00mm	2.0	--	%	ISO 294-4
Traffic: 23°C, 2.00mm	2.0	--	%	ISO 294-4
Water Absorption				ISO 62
23°C, 24 hr	1.2	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3300	1600	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield, 23°C	88.3	55.0	MPa	ISO 527-2
Fracture, 23°C	60.0	45.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	5.0	20	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	20	> 50	%	ISO 527-2
Flexural Modulus (23°C)	3300	1050	MPa	ISO 178
Flexural Stress (23°C)	105	30.0	MPa	ISO 178
Poisson's Ratio	0.40	--		ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	6.9	kJ/m ²	ISO 179/1eA
23°C	6.1	23	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Notched Izod Impact				ISO 180
-30°C	5.0	6.9	kJ/m ²	ISO 180
23°C	6.1	23	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	210	--	°C	ISO 75-2/B
1.8 MPa, not annealed	72.2	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C, 2.00mm	1.0E-4	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C, 2.00mm	1.0E-4	--	cm/cm/°C	ISO 11359-2
RTI Elec				UL 746
0.40 mm	130	--	°C	UL 746

0.71 mm	130	--	°C	UL 746
1.5 mm	130	--	°C	UL 746
3.0 mm	130	--	°C	UL 746
RTI Imp				UL 746
0.40 mm	75.0	--	°C	UL 746
0.71 mm	75.0	--	°C	UL 746
1.5 mm	75.0	--	°C	UL 746
3.0 mm	75.0	--	°C	UL 746
RTI				UL 746
0.40 mm	75.0	--	°C	UL 746
0.71 mm	85.0	--	°C	UL 746
1.5 mm	85.0	--	°C	UL 746
3.0 mm	85.0	--	°C	UL 746
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (0.749 mm)	1.0E+10	--	ohms · cm	IEC 60093
Dielectric Strength (1.00 mm)	26	--	kV/mm	IEC 60243-1
Arc Resistance (3.00 mm)	PLC 5	--		ASTM D495
Comparative Tracking Index (3.00 mm)	600	--	V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746
0.71 mm	PLC 0	--		UL 746
1.5 mm	PLC 0	--		UL 746
3.0 mm	PLC 0	--		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 0	--		UL 746
Hot-wire Ignition (HWI)				UL 746
0.71 mm	PLC 4	--		UL 746
1.5 mm	PLC 3	--		UL 746
3.0 mm	PLC 3	--		UL 746
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.40 mm	V-2	--		UL 94
0.71 mm	V-2	--		UL 94
1.5 mm	V-2	--		UL 94
3.0 mm	V-2	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
0.71 mm	799	--	°C	IEC 60695-2-12
1.5 mm	799	--	°C	IEC 60695-2-12
3.0 mm	932	--	°C	IEC 60695-2-12

Glow Wire Ignition Temperature				IEC 60695-2-13
0.71 mm	699	--	°C	IEC 60695-2-13
1.5 mm	699	--	°C	IEC 60695-2-13
3.0 mm	699	--	°C	IEC 60695-2-13
Oxygen Index	26	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	< 70		°C	
Drying Time	1.0 - 3.0		hr	
Suggested Max Regrind	50		%	
Rear Temperature	260 - 280		°C	
Middle Temperature	270 - 285		°C	
Front Temperature	280 - 290		°C	
Nozzle Temperature	280 - 300		°C	
Processing (Melt) Temp	285 - 300		°C	
Mold Temperature	65 - 95		°C	

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