

Nylene® 409

Polyamide 6
Custom Resins Group

Message:

Heat stabilized version of 406 which is a general purpose, fast cycling molding resin
Crystallization initiators provide fast molding cycles through rapid melt set-up. In addition to protection from heat degradation
Parts molded from 409 have better dimensional stability at moisture equilibrium than parts molded from conventional nylon
Optimum processing conditions should provide a melt temperature of 450°F-470°F at the nozzle

General Information			
UL YellowCard	E40081-231514		
Additive	Heat Stabilizer		
Features	Fast Molding Cycle		
	General Purpose		
	Good Dimensional Stability		
	Heat Stabilized		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	75.2	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	25	%	ASTM D638
Flexural Modulus (23°C)	2760	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	182	°C	
1.8 MPa, Unannealed	71.1	°C	
Peak Melting Temperature	216	°C	ASTM D3418
Flammability	Nominal Value		Test Method
Flame Rating (1.47 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	232 to 243	°C	

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