

NYCOA Polyamide 1047

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 1047 is a general purpose, heat stabilized Nylon 6 resin suitable for injection molding and extrusion applications. It is recommended for applications that require continuous exposure to temperatures in excess of 110° C. It features outstanding proc
NYCOA 1047 is approved to numerous automotive specifications. It is recognized by Underwriters Laboratories for thicknesses as low as 0.7mm. It is listed as UL 94V-2.
NYCOA 1047 is used for a variety of applications that include electrical connectors, gears, and convoluted tubing.

General Information			
UL YellowCard	E86478-252064		
Additive	heat stabilizer		
Features	Workability, good		
	Thermal Stability		
Uses	Gear		
	Electrical/Electronic Applications		
	Pipe fittings		
	Connector		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.2	%	ASTM D955
Transverse flow	1.4	%	ASTM D955
Water Absorption (24 hr)	1.7	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	90.0	MPa	ASTM D638
Tensile Elongation ² (Break)	40	%	ASTM D638
Flexural Modulus ³	2800	MPa	ASTM D790
Flexural Strength ⁴	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	191	°C	ASTM D648
1.8 MPa, not annealed	68.0	°C	ASTM D648
Continuous Use Temperature	110	°C	ASTM D794
Melting Temperature	221	°C	
Flammability	Nominal Value		Test Method
Flame Rating (0.700 mm)	V-2		UL 94
Additional Information			
The value listed as Max. Continuous Use Temp, ASTM D794 may not have been tested according to this standard.			
Injection	Nominal Value	Unit	
Drying Temperature	71.1 - 82.2	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	221 - 241	°C	
Middle Temperature	235 - 252	°C	
Front Temperature	246 - 260	°C	
Nozzle Temperature	254 - 266	°C	
Processing (Melt) Temp	249 - 266	°C	
Mold Temperature	76.7 - 87.8	°C	
Injection Rate	Fast		
Back Pressure	0.138 - 0.517	MPa	
Cushion	1.59 - 6.35	mm	
Screw L/D Ratio	16.0:1.0		
Screw Compression Ratio	3.0:1.0		
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	51 mm/min		
4.	51 mm/min		

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