

NYCOA Polyamide 1417 HS

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 1417 HS is a heat stabilized and impact modified Nylon 6. This medium viscosity resin was developed for injection molding and extrusion processes for applications requiring improved toughness, flexibility, and good heat stability.
NYCOA 1417 HS is suitable for a variety of applications including plugs, connectors, fasteners, clips, tool housings, and flexible tubing extrusion.

General Information	
Additive	Heat Stabilizer
	Impact Modifier
Features	Good Flexibility
	Good Toughness
	Heat Stabilized
	Impact Modified
	Medium Viscosity
Uses	Connectors
	Fasteners
	Housings
	Plugs
	Tubing
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.2	%	
Across Flow	1.4	%	
Water Absorption (24 hr)	1.3	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	64.0	MPa	ASTM D638
Tensile Elongation ² (Break)	75	%	ASTM D638
Flexural Modulus ³	2200	MPa	ASTM D790
Flexural Strength ⁴	91.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	168	°C	
1.8 MPa, Unannealed	66.0	°C	
Melting Temperature	221	°C	
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	221 to 241	°C	
Middle Temperature	235 to 252	°C	
Front Temperature	246 to 260	°C	
Nozzle Temperature	254 to 266	°C	
Processing (Melt) Temp	249 to 266	°C	
Mold Temperature	76.7 to 87.8	°C	
Injection Rate	Fast		
Back Pressure	0.138 to 0.517	MPa	
Cushion	1.59 to 6.35	mm	
Screw L/D Ratio	16.0:1.0		
Screw Compression Ratio	3.0:1.0		
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		

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