

NYCOA Polyamide 2326 HS

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2326 HS is an impact modified, heat stabilized nylon 6 resin, which offers outstanding toughness, impact strength and chemical resistance. This material is specially formulated to give a high degree of impact strength, without the loss of stiffness and rigidity. NYCOA 2326 HS processes easily on conventional injection molding and extrusion equipment. Typical applications include clips, fasteners, wiring harnesses, power tool housings, and connectors.

General Information			
Additive	Impact modifier		
	heat stabilizer		
Features	Ultra high toughness		
	Impact modification		
	Rigid, good		
	Impact resistance, high		
	Workability, good		
	Good chemical resistance		
	Thermal Stability		
	Medium hardness		
Uses	Electrical/Electronic Applications		
	Wire and cable applications		
	Power/other tools		
	Connector		
	Shell		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.4	%	ASTM D955
Transverse flow	1.6	%	ASTM D955
Water Absorption (24 hr)	1.7	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹	45.0	MPa	ASTM D638
Tensile Elongation ² (Break)	130	%	ASTM D638
Flexural Modulus ³	1500	MPa	ASTM D790
Flexural Strength ⁴	58.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	880	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	140	°C	ASTM D648
1.8 MPa, not annealed	48.9	°C	ASTM D648
Melting Temperature	220	°C	DSC

Additional Information

The value listed as Melting Point DSC, was tested in accordance with ASTM D789.

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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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