

NYCOA Polyamide 4014 HST

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 4014 HST is a 14% glass fiber reinforced, heat stabilized, and translucent Nylon 6 resin used for injection molding. This grade features outstanding stiffness and dimensional stability.

NYCOA 4014 HST is available in UV stable, custom colors, and impact modified grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons.

NYCOA 4014 HST has been formulated for see through storage tanks for automotive fluids. Typical applications include reservoir bottles for brake oil, transmission fluid, engine coolant, and power steering fluid.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 14% filler by weight		
Features	Good dimensional stability		
	Rigidity, high		
	Good chemical resistance		
	Hydrocarbon resistance		
	Oil resistance		
	Grease resistance		
	Thermal Stability		
Uses	Parts under the hood of a car		
	Liquid treatment		
	Fuel Tank		
Appearance	Translucent		
	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.50	%	ASTM D955
Transverse flow	0.80	%	ASTM D955
Water Absorption (24 hr)	1.1	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	5000	MPa	ASTM D638
Tensile Strength ²	120	MPa	ASTM D638
Tensile Elongation ³ (Break)	4.0	%	ASTM D638

Flexural Modulus ⁴	4830	MPa	ASTM D790
Flexural Strength ⁵	150	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	220	°C	ASTM D648
1.8 MPa, not annealed	203	°C	ASTM D648
Melting Temperature	221	°C	DSC

Additional Information

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

NOTE

- | | |
|----|-----------|
| 1. | 51 mm/min |
| 2. | 50 mm/min |
| 3. | 50 mm/min |
| 4. | 50 mm/min |
| 5. | 50 mm/min |

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