

# NYCOA Polyamide 4025 HV

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 4025 HV is an Ultra-high viscosity resin particularly suitable for thermoforming and blow molding. Its high melt viscosity and strength provide ease of processing for tubes, profiles, and sheet.

This material is specifically engineered for applications requiring high stiffness, toughness, and melt strength.

NYCOA 4025 is also available in heat stable, UV stable, custom colors, and impact modified grades.

Suggested applications include thermoformed storage containers and blow molded articles.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight
Features	Rigidity, high
	Very high viscosity
	Good melt strength
	Good toughness
Uses	Blow molding applications
	Thermoformed container
Appearance	Available colors
Forms	Particle
Processing Method	Blow molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.40	%	ASTM D955
Transverse flow	0.60	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	160	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	10	%	ASTM D638
Flexural Modulus <sup>3</sup>	6300	MPa	ASTM D790
Flexural Strength <sup>4</sup>	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	218	°C	ASTM D648
1.8 MPa, not annealed	204	°C	ASTM D648
Melting Temperature	220	°C	DSC

#### Additional Information

The value listed as Melting Point DSC, was tested in accordance with ASTM D789. Notched Izod Impact, ASTM D256, 0.25 in: Partial Break

#### NOTE

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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### 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

