

# NYCOA Polyamide 5015 FR

Polyamide 66

Nycoa (Nylon Corporation of America)

## Message:

NYCOA 5015 FR is a 15% glass fiber reinforced, flame retardant Nylon 66 resin used for injection molding. The flame retardant system is specially formulated for UL 94 VO rating at 0.75 mm thickness.

NYCOA 5015 FR is available in custom colors, and impact modified grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons.

NYCOA 5015 FR is suitable for injection molding and can be found in applications in the hardware, electrical coil bobbins, switches, connectors, relay housings, and other automotive applications.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Good chemical resistance		
	Hydrocarbon resistance		
	Oil resistance		
	Grease resistance		
	Flame retardancy		
Uses	Power/other tools		
	Switch		
	Connector		
	Application in Automobile Field		
	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.60	%	ASTM D955
Transverse flow	0.80	%	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	120	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	4.0	%	ASTM D638
Flexural Modulus <sup>3</sup>	6000	MPa	ASTM D790
Flexural Strength <sup>4</sup>	176	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	249	°C	ASTM D648
1.8 MPa, not annealed	232	°C	ASTM D648
Melting Temperature	260	°C	DSC
Flammability	Nominal Value	Test Method	
Flame Rating (0.750 mm)	V-0	UL 94	

#### Additional Information

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

#### 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

