

## Polymer Resources NY66-GP2 General Purpose Nylon 66, Nucleated

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

### Material Notes:

General Purpose Nylon 66, Nucleated Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Nylon grades are tested dry as molded (DAM). Information provided by Polymer Resources Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polymer-Resources-NY66-GP2-General-Purpose-Nylon-66-Nucleated.php](http://www.lookpolymers.com/polymer_Polymer-Resources-NY66-GP2-General-Purpose-Nylon-66-Nucleated.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Linear Mold Shrinkage	0.012 - 0.018 cm/cm	0.012 - 0.018 in/in	Flow; ASTM D955
	0.015 - 0.021 cm/cm	0.015 - 0.021 in/in	Across Flow; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	89.6 MPa	13000 psi	ASTM D638
Tensile Strength, Yield	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Elongation at Yield	4.5 %	4.5 %	ASTM D638
Tensile Modulus	3.38 GPa	490 ksi	ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	3.03 GPa	440 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Izod Impact, Notched (ISO)	3.15 kJ/m <sup>2</sup>	1.50 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Charpy Impact, Notched	0.378 J/cm <sup>2</sup>	1.80 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.420 J/cm <sup>2</sup>	2.00 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	215 °F	ASTM D648
Flammability, UL94	V-2	V-2	
	@Thickness 1.59 mm	@Thickness 0.0626 in	
	V-2	V-2	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	266 - 277 °C	510 - 530 °F	
Middle Barrel Temperature	271 - 282 °C	520 - 540 °F	
Front Barrel Temperature	277 - 288 °C	530 - 550 °F	
Melt Temperature	277 - 293 °C	530 - 560 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Drying Temperature	73.9 - 85.0 °C	165 - 185 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0003	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China