

## Polymer Resources NY66-IM-G40 Nylon 66, 40% Glass Reinforced, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled , Nylon 66, Glass Reinforced, Impact Grade

### Material Notes:

Nylon 66, 40% Glass Reinforced, Toughened and Lubricated  
 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-IM-G40-Nylon-66-40-Glass-Reinforced-Impact-Modified.php](http://www.lookpolymers.com/polymer_Polymer-Resources-NY66-IM-G40-Nylon-66-40-Glass-Reinforced-Impact-Modified.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	50% RH; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	131 MPa	19000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	190 MPa	27500 psi	ASTM D790
Flexural Modulus	9.31 GPa	1350 ksi	ASTM D790
Izod Impact, Notched	1.87 J/cm @Temperature 22.8 °C	3.50 ft-lb/in @Temperature 73.0 °F	ASTM D256
Izod Impact, Unnotched	9.08 J/cm @Temperature 22.8 °C	17.0 ft-lb/in @Temperature 73.0 °F	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear	32.4 µm/m-°C @Temperature -40.0 - 40.0 °C	18.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E831
Thermal Conductivity	0.375 W/m-K	2.60 BTU-in/hr-ft <sup>2</sup> -°F	ASTM E1530
Deflection Temperature at 1.8 MPa (264 psi)	246 °C	475 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	271 - 282 °C	520 - 540 °F	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	282 - 299 °C	540 - 570 °F	
Front Barrel Temperature	282 - 304 °C	540 - 580 °F	
Melt Temperature	288 - 304 °C	550 - 580 °F	
Mold Temperature	82.2 - 104 °C	180 - 220 °F	
Drying Temperature	73.9 - 85.0 °C	165 - 185 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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