



**Product Data Sheet &  
General Processing Conditions**

**RTP PA66 30 GF FR0 BLK  
Nylon 6/6 (PA)  
Value Product  
Glass Fiber  
Flame Retardant  
Non-PBDE/PBB  
UL94  
RA**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>		<b>STANDARD</b>
Primary Additive	30 %	
Density	1.65 g/cm <sup>3</sup>	ISO 1183
Shrinkage, 4 mm Thickness Flow direction	0.15 - 0.30 %	ISO 294-4

<b>MECHANICAL</b>		
Impact Strength, Izod Notched, 4 mm thickness	7 kJ/m <sup>2</sup>	ISO 180/1A
Unnotched, 4 mm thickness	45 kJ/m <sup>2</sup>	ISO 180/1U
Tensile Strength	145 MPa	ISO 527
Tensile Elongation	1.0 - 3.0 %	ISO 527
Tensile Modulus	10500 MPa	ISO 527
Flexural Strength	235 MPa	ISO 178
Flexural Modulus	11000 MPa	ISO 178

<b>ELECTRICAL</b>		
Dielectric Strength, S/T, in air	18.7 kV/mm	IEC 60243-1
Dielectric Constant, 1 MHz, Dry	3.8	IEC 60250
Dissipation Factor, 1 MHz, Dry	0.01500	IEC 60250

<b>THERMAL</b>		
Heat Deflection Temperature @ 1.80 MPa	230 °C	ISO 75
Ignition Resistance* Flammability	V-0 @ 0.8 mm	UL94
Limiting Oxygen Index	34.00 %	ISO 4589

**PROPERTY NOTES**

Data herein is typical and not to be construed as specifications.  
Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.  
\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

**GENERAL PROCESSING FOR INJECTION MOLDING**

Injection Pressure	70 - 125 MPa
Injection Pressure	680 - 1240 bar
Melt Temperature	275 - 300 °C

Mold Temperature	65 - 105 °C
Drying	4 hrs @ 80 °C
Moisture Content	0.20 %
Dew Point	-25 °C

## PROCESSING NOTES

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Desiccant Type Dryer Required.

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This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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