



# Technical Data Sheet

## Resurgens® N1600R G30

30% Glass Reinforced Polyamide (Nylon) Type 6 – 25% Recycle Content

Date: January, 2008

### General

Features	Excellent chemical resistance Engineered to retain critical properties of virgin counterpart Environmentally responsible
Appearance	Pigmented Pellets
Processes	Injection molding

### Typical Compound Properties<sup>(a)</sup>

Physical	Nominal Values		Test Methods <sup>(b)</sup>
	English Units	Metric Units	
Relative Viscosity	50.0 cP	50.0 kPa•s	ASTM D789
Melt Point	419 °F	215 °C	ASTM D789
Specific Gravity	1.36	1.36	ASTM D792
Water Absorption	1.10%	1.10%	ASTM D570
Linear Mold Shrinkage	0.003 in/in	0.003 mm/mm	ASTM D955
Hardness, Rockwell Scale	R121	R121	ASTM D785
Coefficient of Linear Thermal Expansion	1.80 x 10 <sup>-5</sup> in/in °F	3.24 x 10 <sup>-5</sup> cm/cm °C	ASTM D696
Reinforcement Content	30±2%	30±2%	ASTM D2584

### Mechanical<sup>(c)</sup>

Notched Izod Impact @ 73 °F (23 °C)	2.0 ft-lb/in.	106.8 J/m	ASTM D256
Tensile Strength @ Yield	23,000 psi	158.6 MPa	ASTM D638
Elongation @ Break	3%	3%	ASTM D638
Flexural Strength	34,000 psi	234.5 MPa	ASTM D790
Flexural Modulus, tangent	1,100,000 psi	7,586 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	430 °F	221 °C	ASTM D648
@ 264 psi (1.82 MPa)	410 °F	210 °C	ASTM D648

(a) Values shown represent nominal averages and are not to be construed as product specifications.

(b) ASTM methods are the latest under the Society's current Procedures. All Molded specimens are prepared by injection molding.

(c) Properties measured on "Dry As Molded" test specimens.

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