



Technical Data Sheet

Resurgens® N1600R

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^(a)

Physical	Nominal Values		Test Methods ^(b)
	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	1.13	1.13	ASTM D792
Water Absorption	1.60%	1.60%	ASTM D570
Linear Mold Shrinkage	0.012 in/in	0.012 mm/mm	ASTM D955
Hardness, Rockwell Scale	R119	R119	ASTM D785
Coefficient of Linear Thermal Expansion	4.60 x 10 ⁻⁵ in/in °F	8.28 x 10 ⁻⁵ cm/cm °C	ASTM D696

Mechanical^(c)

Notched Izod Impact @ 73 °F (23 °C)	1.0 ft-lb/in.	53.4 J/m	ASTM D256
Tensile Strength @ Yield	11,500 psi	79.3 MPa	ASTM D638
Elongation @ Break	60%	60%	ASTM D638
Flexural Strength	15,700 psi	108.3 MPa	ASTM D790
Flexural Modulus, tangent	420,000 psi	2,897 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	320 °F	160 °C	ASTM D648
@ 264 psi (1.82 MPa)	147 °F	63 °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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