



# Technical Data Sheet

## Resurgens® A1100R

Acrylonitrile-Butadiene-Styrene Terpolymer (ABS) – 25% Minimum Recycle Content

Date: January, 2008

### General

Features	Excellent price:performance ratio Engineered to retain critical properties of virgin counterpart Environmentally responsible
Appearance	Pigmented Pellets
Processes	Injection molding

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

	Nominal Values		Test Methods <sup>(b)</sup>
Physical	English Units	Metric Units	
Melt Flow Rate	4.0 g/10 min.	4.0 dg/min.	ASTM D1238, 3,800 g. @ 230°C
Specific Gravity	1.05	1.05	ASTM D792
Linear Mold Shrinkage	0.006 in/in	0.006 mm/mm	ASTM D955
Hardness, Rockwell Scale	R112	R112	ASTM D785
Coefficient of Linear Thermal Expansion	4.50 x 10 <sup>-5</sup> in/in °F	8.10 x 10 <sup>-5</sup> cm/cm °C	ASTM D696
Water Absorption	0.40%	0.40%	ASTM D785

### Mechanical

Notched Izod Impact @ 73 °F (23 °C)	3.0 ft-lb/in.	160.2 J/m	ASTM D256
Tensile Strength @ Yield	6,000 psi	41.4 MPa	ASTM D638
Elongation @ Yield	25%	25%	ASTM D638
Flexural Strength	10,000 psi	69.0 MPa	ASTM D790
Flexural Modulus, tangent	325,000 psi	2,241 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	195 °F	91 °C	ASTM D648
@ 264 psi (1.82 MPa)	185 °F	85 °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.

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