

# RADISTRONG AROMA RV300RKC2 106 NT

PROVISIONAL

## DESCRIPTION

Special PA 30% glass fibre reinforced, high flow injection moulding grade. Heat stabilized. Drinking water and food contact. Natural colour.

General purpose metal replacement product with good resistance to hydrolysis, enhanced mechanical properties after moisture pick-up. Specifically intended for use in applications in civil and industrial water management as well as appliances and consumer goods. Suitable for parts requiring high stiffness and good mechanical resistance along with high surface quality and superior gloss.

ISO 1043: (PA66+PA\*)-GF30

REGIONAL AVAILABILITY: North America, Europe, Asia Pacific, South and Central America, Near East/Africa

*THE CHARACTERISTICS SHOWN HERE ARE PROVISIONAL AND REFLECT THE AVERAGE VALUES OF PROPERTIES MEASURED OVER A LIMITED NUMBER OF PRODUCTION CAMPAIGNS*

## MATERIAL HANDLING AND PROCESSING

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.15%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

### Injection Molding Processing Parameters

Melt Temperature  
280 - 300°C

Mold Temperature  
80 - 100°C

Injection Speed  
medium-high

## PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Safety Data Sheet

ROHS compliant 2011/65/EU and successive amendments

Suitable for materials and articles intended to come into contact directly or indirectly with food in compliance with EU 10/2011 and FDA Title 21CFR Chapter 1, part 177.1500. Suitable for drinking water contact.

Suitable and approved for drinking water contact.

Please get in contact with our Customer Service for drinking water contact approvals and further information.



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PROPERTY	STANDARD	UNIT	VALUE		
			DAM*	Cond**	
<b>PHYSICAL PROPERTIES</b>					
Density		kg/m <sup>3</sup>	1360		
Moulding shrinkage - Parallel / Normal	290/80/60 <sup>[1]</sup>	%	0.3 / 0.7		
Water Absorption, immersion at 23°C	2mm	%	5.3		
Moisture Absorption 23°C - 50%RH	2mm	%	1.5		
<b>MECHANICAL PROPERTIES</b>					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	9800	9400
Stress at Break	5mm/min	ISO 527-2/1A	MPa	200	165
Strain at Break	5mm/min	ISO 527-2/1A	%	3.3	3.5
Flexural Modulus	2mm/min	ISO 178	MPa	9100	8550
Flexural Strength	2mm/min	ISO 178	MPa	305	265
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m <sup>2</sup>	74	77
Charpy Impact Strength	-30°C	ISO 179/1eU	kJ/m <sup>2</sup>	66	55
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m <sup>2</sup>	12	13
Charpy Notched Impact Strength	-30°C	ISO 179/1eA	kJ/m <sup>2</sup>	10	10
<b>THERMAL PROPERTIES</b>					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	260	
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	235	
<b>FLAMMABILITY PROPERTIES</b>					
Flammability	0.8mm	UL 94	class	HB	
<b>ELECTRICAL PROPERTIES</b>					
Volume Resistivity	500V	IEC 62631-3-1	Ohm*m	1E13	1E11
Surface Resistivity	500V	IEC 62631-3-2	Ohm	1E12	1E10

\*: DAM = Dry As Moulded state according to ISO 16396-2, \*\*: Cond = Conditioned state similar to ISO 1110

1: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

