

RADISTRONG AROMA RV400RKC2 306 BK

PROVISIONAL

DESCRIPTION

Special PA 40% glass fibre reinforced, high flow injection moulding grade. Heat stabilized. Drinking water and food contact. Black 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, good mechanical resistance along with high surface quality and superior gloss.

ISO 1043: (PA66+PA*)-GF40

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**
PHYSICAL PROPERTIES				
Density	ISO 1183	kg/m ³	1470	
Moulding shrinkage - Parallel / Normal	ISO 294-4	%	0.3 / 0.6	
MECHANICAL PROPERTIES				
Tensile Modulus	ISO 527-2/1A	MPa	13200	
Stress at Break	ISO 527-2/1A	MPa	210	
Strain at Break	ISO 527-2/1A	%	2.4	
Flexural Modulus	ISO 178	MPa	11900	
Flexural Strength	ISO 178	MPa	310	
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	75	
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	12	
THERMAL PROPERTIES				
Melting Temperature	ISO 11357-1/-3	°C	260	
Heat Deflection Temperature	ISO 75/2Af	°C	238	
FLAMMABILITY PROPERTIES				
Glow Wire Flammability Index	IEC 60695-2-12	°C	700	
Glow Wire Flammability Index	IEC 60695-2-12	°C	725	

*: 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]

