

# RADILON S BMZ200W 100 NT

## DESCRIPTION

PA6 high viscosity blow moulding grade. Toughened, heat stabilized. Natural colour.

Suitable for blow-moulding of tubes and containers requiring excellent impact resistance, even at low temperatures, such as hydrogen tanks.

ISO 1043: PA6-HI

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

## 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  
250 - 270°C

Mold Temperature  
70 - 80°C

Injection Speed  
medium

Extrusion Temperature  
240 - 260°C

## PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet  
ROHS compliant 2011/65/EU and following amendments



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PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
<b>PHYSICAL PROPERTIES</b>				
Density	ISO 1183	kg/m <sup>3</sup>	1050	
Melt Flow Rate	ISO 1133	g/10min		3
Water Absorption, immersion at 23°C	ISO 62	%		5.5
Moisture Absorption 23°C - 50%RH	ISO 62	%		1.6
<b>MECHANICAL PROPERTIES</b>				
Tensile Modulus	ISO 527-2/1A	MPa	1500	
Stress at Yield	ISO 527-2/1A	MPa	40	
Yield Strain	ISO 527-2/1A	%	4.7	
Nominal Strain at Break	ISO 527-2/1A	%	>100	
Flexural Modulus	ISO 178	MPa	1500	
Flexural Strength	ISO 178	MPa	55	
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	95	
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	72	
<b>THERMAL PROPERTIES</b>				
Melting Temperature	ISO 11357-1/-3	°C	218	
Vicat Softening Temperature	ISO 306	°C	115	
<b>FLAMMABILITY PROPERTIES</b>				
Flammability	UL 94	class	HB	
<b>ELECTRICAL PROPERTIES</b>				
Volume Resistivity	IEC 62631-3-1	Ohm*m	1E13	1E11
Surface Resistivity	IEC 62631-3-2	Ohm	1E12	1E10

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

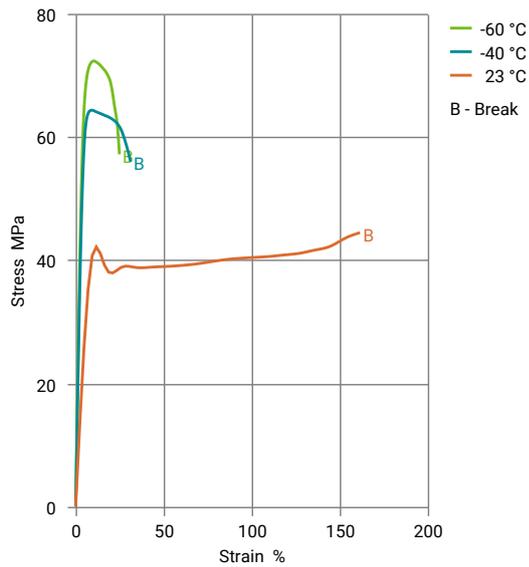
1: Temperature [°C] / Load [kg]



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## DIAGRAMS

### Stress-strain (dry)



### Secant modulus-strain (dry)

