

## Radilon BN 200 AS 2 natural

Material code

Colour code

### DESCRIPTION

PA 6

This material is suitable for housing, fans, fasteners, clips, cable ties

ISO 1043 : PA6

### 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.

The drying time depends on moisture content. The maximum permissible moisture content for injection molding is 0,15%

#### Processing Parameters

Melt Temperature:	Mold Temperature:	Injection Speed:
250 - 270 °C	60-80 °C	high

### PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet

RoHS compliant 2011/65/CE and following amendments

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**TECHNICAL DATA SHEET**

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<i>PROPERTY</i>		<i>STANDARD</i>	<i>UNIT</i>	<i>VALUE</i>	
				<i>DAM*</i>	<i>Cond**</i>
<b>Physical Properties</b>					
Density		ISO 1183	Kg/m <sup>3</sup>	1130	
Moulding shrinkage - Parallel / Normal	//***	ISO 294-4	%	0,90 / 1,10	
Moisture absorption 23°C - 50%RH	2mm thk	ISO 62	%	3,00	
Water absorption, immersion at 23°C	2mm thk	ISO 62	%	9,50	
Melt Volume Rate	250°C / 1,2kg	ISO 1133	cm <sup>3</sup> /10'	17	
Viscosity Index (Sulfuric Acid)		ISO 307	ml/g	146	
<b>Mechanical Properties</b>					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	3000	1200
Stress at Yield	50mm/min	ISO 527-2/1A	MPa	85	50
Yield Strain	50mm/min	ISO 527-2/1A	%	4	20
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%		
Flexural Modulus	2mm/min	ISO 178	MPa	2500	1000
Flexural Strength	2mm/min	ISO 178	MPa	100	
Charpy Impact Strength	+23°C	ISO 179/1 eU	KJ/m <sup>2</sup>	0	n.b.
Charpy Impact Strength	-30°C	ISO 179/1 eU	KJ/m <sup>2</sup>	100	
Charpy Impact Strength	-40°C	ISO 179/1 eU	KJ/m <sup>2</sup>	B	
Charpy Notched Impact Strength	+23°C	ISO 179/1 eA	KJ/m <sup>2</sup>	8	
Charpy Notched Impact Strength	-40°C	ISO 179/1 eA	KJ/m <sup>2</sup>	B	
<b>Thermal Properties</b>					
Melting Temperature	10°C/min	ISO 11357-1-3	°C	220	
Heat Deflection Temperature	1.8 MPa	ISO 75/2Af	°C	65	
Heat Deflection Temperature	0.45 MPa	ISO 75/2 B f	°C	160	
<b>Flammability Properties</b>					
Flammability	0.4mm	UL 94	class		
Flammability	0.8mm	UL 94	class	V2	
Glow Wire Flammability Index		IEC 60695-2-12	°C		
Glow Wire Ignition Temperature		IEC 60695-2-13	°C		
Automotive interior flammability	3mm thk	ISO 3795	mm/min	0	
<b>Electrical Properties</b>					
Volume resistivity	500V	IEC 60093	ohm · m		
Surface resistivity	500V	IEC 60093	ohm		
Comparative Tracking Index	SoL.A	IEC 60112	-		

\*DAM = Dry As Moulded state \*\*Cond = Conditioned state similar to ISO 1110 \*\*\*Melt Temp [°C] / Mold Temp [°C] / Cavity press [MPa]

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