RADILON BN 200 AS 2 natural

DESCRIPTION

PA6

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

ISO 1043: PA6

REGIONAL AVAILABILITY: Europe

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	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/EU and following amendments

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PROPERTY		STANDARD	UNIT	VALUE DAM*	VALUE Cond**
PHYSICAL PROPERTIES					
Density		ISO 1183	kg/m³	1130	
Melt Volume-Flow Rate	250/1.2[1]	ISO 1133	cm³/10min	17	
Water Absorption, immersion at 23°C	2mm	ISO 62	%	9.5	
Moisture Absorption 23°C - 50%RH	2mm	ISO 62	%	3	
Viscosity Index (Sulfuric Acid)		ISO 307	ml/g	146	
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	3000	1200
Stress at Yield	50mm/min	ISO 527-2/1A	MPa	85	50
Flexural Modulus	2mm/min	ISO 178	MPa	2500	1000
Flexural Strength	2mm/min	ISO 178	MPa	100	
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m²	N	N
Charpy Impact Strength	-30°C	ISO 179/1eU	kJ/m²	100	
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m²	8	
THERMAL PROPERTIES					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	220	
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	65	
Heat Deflection Temperature	0.45 MPa	ISO 75/2Bf	°C	160	
FLAMMABILITY PROPERTIES					
Flammability	0.8mm	UL 94	class	V-2	
Automotive Interior Flammability	3mm	ISO 3795	mm/min	0	
ELECTRICAL PROPERTIES					
Surface Resistivity	500V	IEC 60093	Ohm		0.9

*: DAM = Dry As Moulded state according to ISO 16396-2 **: Cond = Conditioned state similar to ISO 1110 1: Temperature [°C] / Load [kg]