

PRODUCT INFORMATION

RADILON A 50HSKB 870 M BR

PRELIMINARY

DESCRIPTION

PA66 very high viscosity extrusion grade. Internally lubricated. Heat stabilized, DPPD free. Natural brown colour.

Suitable for extrusion of pipes, intended for use in contact with oil and grease.

ISO 1043: PA66-T

THE CHARACTERISTICS SHOWN HERE MUST BE CONSIDERED PRELIMINARY AND INDICATIVE FOR A PRODUCT AT DEVELOPMENTAL STAGE

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
280 - 300°C

Mold Temperature
70 - 90°C

Injection Speed
medium

Extrusion Temperature
270 - 290°C

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet

Underwriters Laboratories Inc. certified material. File number: E116324 www.ul.com

ROHS compliant 2011/65/UE and following amendments

TECHNICAL DATA SHEET

RADILON A 50HSKB 870 M BR

PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
PHYSICAL PROPERTIES				
Density		kg/m ³	1120	
Moulding shrinkage - Parallel / Normal	290 /60 /60 ^[1]	ISO 294-4	%	1,1 / 1,1
Water Absorption, immersion at 23°C	2mm	ISO 62	%	8,9
Moisture Absorption 23°C - 50%RH	2mm	ISO 62	%	2,1
MECHANICAL PROPERTIES				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	3100
Stress at Yield	50mm/min	ISO 527-2/1A	MPa	80
Yield Strain		ISO 527-2/1A	%	4,5
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%	55
Flexural Modulus	2mm/min	ISO 178	MPa	3000
Flexural Strength	2mm/min	ISO 178	MPa	115
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m ²	5,5
THERMAL PROPERTIES				
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	260
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	80
Vicat Softening Temperature	50°C/h 50N	ISO 306	°C	240
FLAMMABILITY PROPERTIES				
Automotive Interior Flammability	3mm	ISO 3795	mm/min	0
ELECTRICAL PROPERTIES				
Volume Resistivity	500V	IEC 60093	Ohm*m	1E13 1E11
Surface Resistivity	500V	IEC 60093	Ohm	1E12 1E10

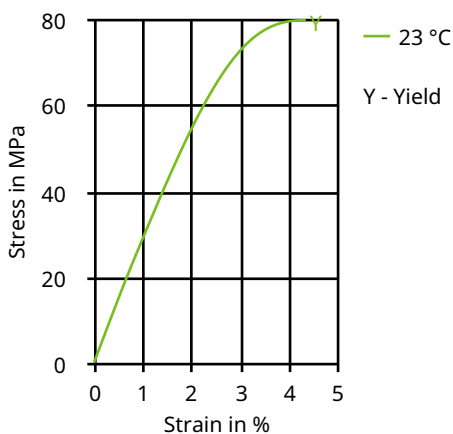
*: DAM = Dry As Moulded state according to ISO 16396-2 **: Cond = Conditioned state similar to ISO 1110 1: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

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Diagrams

Stress-strain (dry)



Secant modulus-strain (dry)

