# RAYFLEX ROLL 0.5 mm\* RADIATION PROTECTION AGAINST IONIZING RADIATION LEAD-FREE

\* 0.5 mm = the thickness of the RayFlex sheet (the equivalent thickness of lead = 0.15 mm)



**Bi-layered** fabric roll: **Nylon** / **Rare earth** rubber **Excellent protection against Alpha, Beta and low energy Gamma and X radiation emissions** 

Flexibility

Mechanical properties

Chemical resistance

Price





# **MECHANICAL PROPERTIES**

RESISTANCE FOR A SHEET		
Pendulum Tear NFG 37128	> 1 DaN in the chain direction	
EN 963 perforation	> 3 Dan side loads > 4 DaN Polyamide fabric side	
Breakage	> 45 DaN / 5 cm, weft direction > 75 DaN / 5 cm meaning chain	
Flexibility	3 cm (Measured according to standard flat buckle ISO 5979)	

## **RADIOPROTECTIVE PROPERTIES**

LEAD EQUIVALENCE FOR A SHEET		
Energy (KeV)	Lead Equivalence (micron meter)	
0 to 42	90	
42 to 55	144	
55 to 89	270	
90 to 150	110	

MEASURE OF MITIGATION

CHARACTERISTICS WITH LOW ENERGY		
Number of sheets Density / Attenuation Gamma		Quality
	1.80	Good
	3.60	Very good
	5.40	Excellent

IN DOSIMETRY:	DOSIMETRY:	
Energy (KeV)	Mitigation (%)	
20 to 50	94%	
20 to 70	88%	
20 to 100	82%	
20 to 120	76%	
20 to 150	70%	

Measurements made on 1 slick using a 70 μA X generator and 1 mm aluminum spectrum hardening, a 1-minute acquisition time using a PTW supplier's chamber type 77334.

### **MEASURE OF ATTENUATION WITH RADIOACTIVE SOURCES ON A SINGLE SHEET:**

Energy (KeV)	Mitigation (%)
81	56%
276	14%
303	8%

## **SIZE AND WEIGHT**

### **MAINTENANCE TIPS**

- Expiration: 3 years in the original packaging Wash with soapy water, rinse with clean water and dry in a stream of air at low temperature (< 40°C)

- Not recyclable
   Disposal as a simple non-toxic waste if not contaminated with a hazardous material or radioactive contamination

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