

**ROYAL MAT INC.**  
**TECHNICAL DATA SHEET**

**Rubber Mat (floor covering)**

<b><u>Standard</u></b>	<b><u>Tests</u></b>	<b><u>Results</u></b>
ASTM D-2240	Specific gravity	1.14
	Hardness, toughness	+/- 70 durometer Shore A
ASTM D-412	Resistance to traction	777 PSI
ASTM D-412	Modules 100%	352 PSI
ASTM D-412	Tensile strength (max.)	160%
ASTM D-624	Tear resistance	111 pounds/inch
ASTM D-3389	Abrasion resistance (tobacco)	0.41 mgr/k
ASTM D-257	Electric arc resistance (D.C.)	0.7 Million OHMS
ASTM D-1894	Friction coefficient	0.825
ASTM D-1777	Resistance to penetration	28% / 10%
CSA - A 126,10	Initial / residual	
ASTM C-510	Thermic conductivity	1.052 BTU

**Chemical resistance**

C.R.C.	Strong mineral acid	Good
	Oxidizing Acid (concentrated)	Weak
	Strong alkaline base	Good
	Hydrocarbon aliphatic	Average
	Petroleum oils	Good

<b><u>Material</u></b>	<b><u>Products</u></b>	<b><u>Min.</u></b>	<b><u>Max.</u></b>
Recycled rubber crumbs (tires)	Acetone Extract	10.0%	19.0%
	Ash content	-	8.0%
	Carbon black content	28.0%	39.0%
	Moisture content	-	0.75%
	Rubber hydrocarbon	42.0%	-
	Free Iron content	-	0.02%
	Free fabric content	0.75%	
	Bulk density (typical)	100 gm/210 cc	

Colour	Black
Inflammability	C.P.S.C. FF 170
Expansion	8.3 x 10 <sup>-5</sup> in/in °F
Width	1.22 m or 4 feet
Length	1.83 m or 6 feet
Thickness	1.2 cm, 1.8 cm or 1/2", 3/4"
Manufacturing process	Pressure mould with continuous baking in monolayer.

**Models**

The models available are either plain or hexagon shape (beehive). Underneath the mat there are longitudinal grooves spaced at 18 mm (3/4") to allow air circulation, 6.3 mm (1/4") wide x 3.5 mm (1/8") depth. On special request, Royal Mat can provide its customers with groove less mats, bevelled edge(s), interlocked edge(s) or mats cut to requested sizes.

The mats are made of recycled rubber crumbs, originating from various products not specifically known, can result in slight variations in dimension of the finished product. This mat is designed to be used as a floor covering and should not be altered for other uses.

**Warranty**

Our mats have a limited warrantee against premature wear or manufacturing defect for a period of three (3) years.

**Installation**

**Floor preparation:** The surface that will receive the Royal Mat's mat has to be dry, clean, smooth, and free of oil stain and any other chemicals. The expansion joint in the floor, the deep splits and the uneven surface must be filled and levelled out with a good quality product. Only the contractor can determine whether or not the surface (area) can adequately covered with the rubber mats. If the area is subject to dense humidity, underground or ground level, a test must be done to establish the degree of humidity contained in the concrete.

**Temperature:** The Royal Mat mats and the supplies must be maintained at room temperature (20°C or 72°F). Since rubber characteristics vary with changes in temperature, it is important that the Royal Mat mats be stored for a period of 72 hours prior to installation in the area to be covered. We recommend the use of our adhesive. After the lay down of the material, it must be rolled with a 35 kg (75 lb.) roller.

Be sure to use the correct cleaning agent, sealer and the finishing product...

**Maintenance:** Commercial, Industrial, Household uses.

We recommend that you never use alkaline product as cleaning agent. Normal regular cleaning agent used properly will maintain your floor in a good condition with a good looking surface. For more details on other products to be used, for hard to remove stains and to obtain a glossy finish, do not hesitate to call us.

**Note**

It is important that the manufacturer's installation specifications be followed at all times, a good floor preparation with the use of a proper adhesive.

**Caution**

The black carbon (an ingredient in the rubber) used in the manufacturing of the mat has an electric conductivity

If more information is required, please do not hesitate to contact the personnel of:  
Royal Mat Inc, 132, 181st St., Industrial Park, Beauceville, Qc G5X 2S8 Tel: (418)774-3694 Fax: (418)774-2905  
It will be a pleasure to serve you!